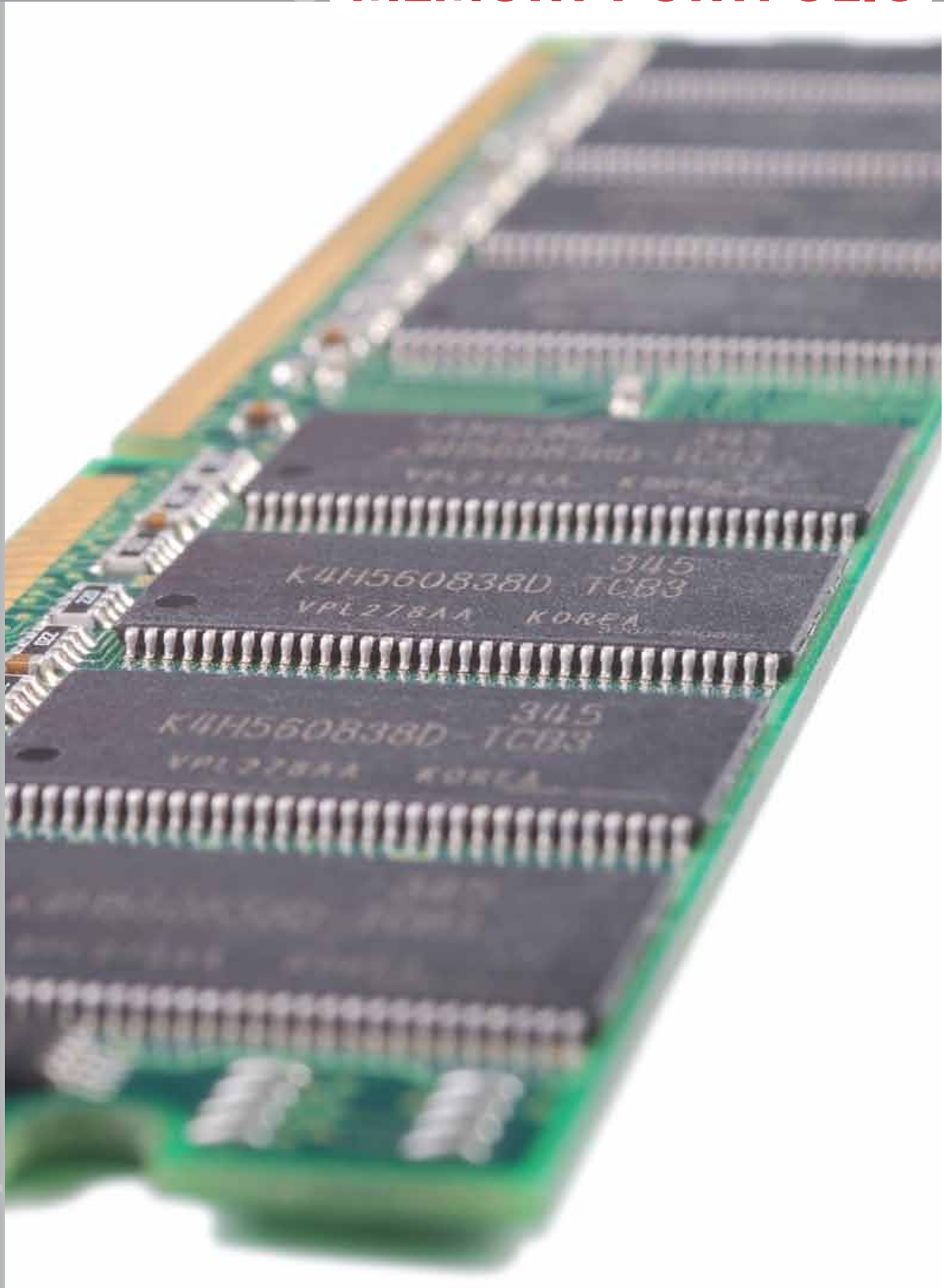


# DR DATARAM

Optimizing Value and Performance

## MEMORY PORTFOLIO



Founded in 1967, Dataram is a worldwide leader in the manufacture of high-quality computer memory, storage and software products. Our products and services deliver IT infrastructure optimization, dramatically increase application performance and deliver substantial cost savings. Dataram solutions are deployed in 70 Fortune 100 companies and in mission-critical government and defense applications around the world. For more information about Dataram, visit [www.dataram.com](http://www.dataram.com).

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
<b>CISCO</b>		<a href="http://www.dataram.com">For the latest product news or to register for E-Flash go to www.dataram.com</a>						
<b>Rack-Mount Servers</b>								
UCS C-Series	C200 M2 SFF	192GB	12	4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				16GB	A02-M316GB2-L	DRC1066Q1L/16GB	1	
				<b>16GB</b>	<b>UCS-MR-1X162RX-A</b>	<b>DRC1333D1X/16GB</b>	<b>1</b>	
Low voltage DIMMs require Cisco UCS Manager version 1.2(1) or later, and the related BIOS package. 16 GB DIMMs require Cisco UCS Manager version 1.4(1) and UCS capability catalog version 1.0.16 or later, and the related BIOS package.								
UCS C-Series	C200 M2 LFF	192GB	12	4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				4GB	N01-M304GB1-L	DRC1333D1L/4GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				16GB	A02-M316GB2-L	DRC1066Q1L/16GB	1	
				16GB	UCS-MR-1X162RX-A	DRC1333D1X/16GB	1	
Low voltage DIMMs require Cisco UCS Manager version 1.2(1) or later, and the related BIOS package. 16 GB DIMMs require Cisco UCS Manager version 1.4(1) and UCS capability catalog version 1.0.16 or later, and the related BIOS package.								
UCS C-Series	C210 M2	192GB	12	4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				4GB	N01-M304GB1-L	DRC1333D1L/4GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				16GB	A02-M316GB2-L	DRC1066Q1L/16GB	1	
				16GB	UCS-MR-1X162RX-A	DRC1333D1X/16GB	1	
Low voltage DIMMs require Cisco UCS Manager version 1.2(1) or later, and the related BIOS package. 16 GB DIMMs require Cisco UCS Manager version 1.4(1) and UCS capability catalog version 1.0.16 or later, and the related BIOS package.								
UCS C-Series	C220 M3	256GB	16	4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				8 DIMM slots per processor	16GB	UCS-MR-1X162RX-A	DRC1333D1X/16GB	1
				4GB	UCS-MR-1X041RY-A	DRC1600S1X/4GB	1	
				8GB	UCS-MR-1X082RY-A	DRC1600D1X/8GB	1	
				16GB	UCS-MR-1X162RY-A	DRC1600D1X/16GB	1	
UCS C-Series	C240 M3	384GB	24	4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				12 DIMM slots per processor	16GB	UCS-MR-1X162RX-A	DRC1333D1X/16GB	1
				With 3 DIMMs per channel all memory runs at 1.5V and 1066 MHz	4GB	UCS-MR-1X041RY-A	DRC1600S1X/4GB	1
				8GB	UCS-MR-1X082RY-A	DRC1600D1X/8GB	1	
				16GB	UCS-MR-1X162RY-A	DRC1600D1X/16GB	1	
UCS C-Series	C250 M2	384GB	48	8GB	A02-M308GB1-2-L	DRC1333D2L/8GB	2	
				16GB	A02-M316GB1-2-L	DRC1333D2L/16GB	2	
4 GB single Rank low voltage DIMMs require Cisco UCS Manager version 1.4(1) or later, and the related BIOS package. Low voltage DIMMs require Cisco UCS Manager version 1.2(1) or later, and the related BIOS package.								
UCS C-Series	C260 M2	512GB	32 <sup>1)</sup>	8GB	UCS-MR-2X041RX-C	DRC1333S2X/8GB	2	
				16GB	UCS-MR-2X082RX-C	DRC1333D2X/16GB	2	
				32GB	UCS-MR-2X164RX-C	DRC1333Q2X/32GB	2	
<sup>1)</sup> There are eight slots for Memory Riser Cards, of which there are two types: a 2-DIMM Riser Card (Cisco C260-MRBD-002) and a 4-DIMM Extended Riser Card (Cisco C260-MRBD-004). The two Riser Card types cannot be mixed within a server.								
UCS C-Series	C460 M2	1TB	64 <sup>1)</sup>	8GB	A02-M308GB3-2	DRC1333D2/8GB	2	
				16GB	A02-M316GB3-2	DRC1333D2/16GB	2	
				16GB	A02-M316GB4-2	DRC1066Q2/16GB	2	
				32GB	A02-M332GB3-2-L	DRC1066Q2L/32GB	2	
				32GB	UCS-MR-2X164RX-C	DRC1333Q2X/32GB	2	
<sup>1)</sup> There are eight slots for Memory Riser Cards, each with 8 DIMM slots (Cisco UCSC-MRB-002-C460). A two CPU system will have four Riser Cards; a four CPU system will have eight.								
<b>Blade Servers</b>								
UCS B-Series	B200 M2	192GB	12	4GB	A02-M304GB2-L	DRC1333S1L/4GB	1	
				4GB	UCS-MR-1X041RX-A	DRC1333S1X/4GB	1	
				4GB	N01-M304GB1-L	DRC1333D1L/4GB	1	
				8GB	N01-M308GB2-L	DRC1333D1L/8GB	1	
				8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				16GB	A02-M316GB1-L	DRC1333D1L/16GB	1	
				16GB	A02-M316GB2-L	DRC1066Q1L/16GB	1	
UCS B-Series	B200 M3	384GB	24	8GB	UCS-MR-1X082RX-A	DRC1333D1X/8GB	1	
				4GB	UCS-MR-1X041RY-A	DRC1600S1X/4GB	1	
				8GB	UCS-MR-1X082RY-A	DRC1600D1X/8GB	1	
				16GB	UCS-MR-1X162RY-A	DRC1600D1X/16GB	1	
With 3 DIMMs per channel all memory runs at 1.5V and 1066 MHz								
UCS B-Series	B230 M1	256GB	32	8GB	A02-M308GB3-2	DRC1333D2/8GB	2	
				16GB	A02-M316GB3-2	DRC1333D2/16GB	2	

**DATARAM MEMORY PRODUCTS**

<b>FAMILY</b>	<b>MODEL</b>	<b>MAX</b>	<b>SLOTS</b>	<b>SIZE</b>	<b>MANUFACTURER #</b>	<b>DATARAM #</b>	<b>BOARDS</b>
UCS B-Series	B230 M2	512GB	32	8GB	A02-M308GB3-2	DRC1333D2/8GB	2
				16GB	A02-M316GB3-2	DRC1333D2/16GB	2
				32GB	A02-M332GD3-2-L	DRC1066Q2DL/32GB	2
				32GB	UCS-MR-2X164RX-D	DRC1333Q2X/32GB	2
UCS B-Series	B250 M2	384GB	48	8GB	A02-M308GB1-2-L	DRC1333D2L/8GB	2
				8GB	A02-M308GB2-2-L	DRC1333S2L/8GB	2
				16GB	A02-M316GB1-2-L	DRC1333D2L/16GB	2
4 GB single Rank low voltage DIMMs require Cisco UCS Manager version 1.4(1) or later, and the related BIOS package.							
Low voltage DIMMs require Cisco UCS Manager version 1.2(1) or later, and the related BIOS package.							
UCS B-Series	B440 M1, B440 M2 B440 M2	512GB	32	8GB	A02-M308GB3-2	DRC1333D2/8GB	2
				16GB	A02-M316GB3-2	DRC1333D2/16GB	2
				32GB	A02-M332GB3-2-L	DRC1066Q2L/32GB	2
				32GB	UCS-MR-2X164RX-C	DRC1333Q2X/32GB	2

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FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>DELL</b>		<a href="http://www.dataram.com">For the latest product news or to register for E-Flash go to www.dataram.com</a>					
<b>SERVERS</b>							
PowerEdge	T110 II, R210 II	32GB	4	4GB	A5185930, A5180187, A5185928, A5180186	DRL1333UL/4GB	1
				8GB	A5185929, A5180168, A5185927, A5180167	DRL1333UL/8GB	1
PowerEdge	T110, R210	16GB	4	4GB	A3132552, A3140086, A3132555, A3140087	DRL1333U/4GB	1
				4GB	A5185928	DRL1333UL/4GB	1
PowerEdge	T310, R310	32GB	6	4GB	A3866780, A3858989, A4849742, A4838316	DRL1333U/4GB	1
				2GB	A3116517, A3105236, A3858983, A3866775	DRL1333R/2GB	1
	16GB (Unbuffered); 32GB (Registered)			4GB	A4838290, A4838297, A4976342, A4976351	DRL1333R2/4GB	1
				4GB	A3116520, A3858985, A3105245, A3866770, A4188275	DRL1066RQ/4GB	1
				8GB	A3116521, A3858988, A3105229, A3866777	DRL1066RQ8/8GB	1
PowerEdge	M600, 1900	64GB	8	8GB	A2257185, A2337012	DRL667FB/8GB	2
	Install DIMMs in matched pairs.			16GB <sup>1)</sup>	A2257247, A2337070	DRL667FBQ/16GB	2
	<sup>1)</sup> 8GB Quad-Rank DIMMs require BIOS V2.3.1 or later.						
PowerEdge	2970	64GB	8	8GB	A2257192, A2337056	DRL667R/8GB	2
				16GB	A3108767, A3145221	DRL667R/16GB	2
PowerEdge	SC1435, T605	32GB	8	8GB	A2337058, A2337054	DRL667R/8GB	2
	Install DIMMs in matched pairs; 4 DIMM slots per processor.						
PowerEdge	1850, 1855, 2800, 2850, 1800, SC1420, SC1425	16GB	6	2GB	A1461051, A1460696, A1461050, A1461052, A0751673, A0751669, A0751675, A0751689, A2525487, A2544592, A1461053, A1461049, A0751671, A0751740	DRL2850S/2GB	1 <sup>1)</sup>
				4GB	A0742807, A1461209, A1488986, A0763340, A1461211, A0763389, A1461112, A0742800, A1461208	DRL2850D/4GB	1 <sup>1)</sup>
	<sup>1)</sup> Except for a single DIMM in the 1st slot, odd numbered DIMMs are not supported--DIMMs must be installed in matched pairs. If using both single- and dual-rank DIMMs, the dual-rank DIMMs must be installed in slots 1 and 2. Dual-rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRL2850S/2GB is single-rank. The DRL2850D/4GB is dual-rank.						
PowerEdge	T300, R300	24GB	6	8GB	A2257195, A2257196, A2337059, A2337060	DRL667R/8GB	2
	Install DIMMs in matched pairs.						
PowerEdge	1955	64GB	8	8GB	A2257180, A2337017	DRL667FB/8GB	2
	Install DIMMs in matched pairs. Valid configurations are two, four, or eight DIMMs. For optimum performance all four or eight DIMMs should be identical (capacity, speed, etc). Memory sparing and memory mirroring require eight and all must be identical.						
PowerEdge	1950, 1950 III, 2950, 2950 III	64GB	8	8GB	A2257179, A2257233, A2337014, A2337016	DRL667FB/8GB	2
				16GB <sup>1)</sup>	A2257216, A2257246, A2337071, A2337069	DRL667FBQ/16GB	2
	Install DIMMs in matched pairs. Valid configurations are two, four, or eight DIMMs. For optimum performance all four or eight DIMMs should be identical (capacity, speed, etc). Memory sparing and memory mirroring require eight and all must be identical.						
	<sup>1)</sup> 8GB Quad-Rank DIMMs require BIOS V2.3.1 or later.						
PowerEdge	M605	64GB	8	8GB	A2257193, A2337057	DRL667R/8GB	2
				16GB	A3108769, A3145222	DRL667R/16GB	2
PowerEdge	R410	128GB <sup>1)</sup>	8	4GB	A5184195, A5180185	DRL1333UL/4GB	1
	<sup>1)</sup> 16GB maximum using Unbuffered memory; 128GB using Registered memory.			2GB	A2884829, A2893519	DRL1333R/2GB	1
				4GB	A4976352, A4838296	DRL1333R2/4GB	1
				4GB	A2862074, A2878520	DRL1333R/4GB	1
				4GB		DRL1066RQ/4GB	1
				8GB	A2862073, A2878511	DRL1066R/8GB	1
				8GB	A3198153, A3277897	DRL1333R/8GB	1
				16GB		DRL1066RQ/16GB	1
			1.35V	4GB	A5184185, A5180253	DRL1333R2L4/4GB	1
			1.35V	4GB	A4849727, A4849720, A4838345	DRL1333R2L8/4GB	1
			1.35V	8GB	A5184194, A5180191	DRL1333RL/8GB	1
			1.35V	16GB	A5095851, A5180155	DRL1066RQL/16GB	1
			1.35V	16GB		DRL1333RL/16GB	1
PowerEdge	R415	128GB <sup>1)</sup>	8	4GB	A4849743, A4751477	DRL1333U/4GB	1
	<sup>1)</sup> 16GB maximum using Unbuffered memory; 128GB using Registered memory.			4GB	A4976349	DRL1333R2/4GB	1
				8GB	A4849729, A4751478	DRL1333R/8GB	1
				16GB		DRL1066RQ/16GB	1
			1.35V	4GB	A4849691	DRL1333R2L8/4GB	1
			1.35V	8GB		DRL1333RL/8GB	1
			1.35V	16GB		DRL1333RL/16GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
PowerEdge	T410 <sup>1)</sup> 16GB maximum using Unbuffered memory; 128GB using Registered memory.	128GB <sup>1)</sup>	8	2GB	A2884828, A2893520	DRL1333R/2GB	1	
				4GB	A4976343, A4838289	DRL1333R2/4GB	1	
				4GB	A2862069, A2878521	DRL1333R/4GB	1	
				4GB		DRL1066RQ/4GB	1	
				8GB	A2862068, A2878512	DRL1066R/8GB	1	
				8GB		DRL1333R/8GB	1	
				16GB		DRL1066RQ/16GB	1	
				1.35V	4GB	A4838338	DRL1333R2L8/4GB	1
				1.35V	8GB	A5184194	DRL1333RL/8GB	1
				1.35V	16GB	A5095855, A5180242	DRL1066RQL/16GB	1
				1.35V	16GB		DRL1333RL/16GB	1
PowerEdge	R510 <sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory.	128GB <sup>1)</sup>	8	4GB	A3198152, A3277895	DRL1333U/4GB	1	
				2GB	A3198151, A3277890	DRL1333R/2GB	1	
				4GB	A4105736, A4114482, A2626060	DRL1333R/4GB	1	
				4GB	A4976353, A4838295	DRL1333R2/4GB	1	
				4GB		DRL1066RQ/4GB	1	
				8GB	A2884830	DRL1066R/8GB	1	
				8GB	A3198153	DRL1333R/8GB	1	
				16GB	A3138308, A4849717, A4751480	DRL1066RQ/16GB	1	
				1.35V	4GB	A4849726, A4838344	DRL1333R2L8/4GB	1
				1.35V	8GB	A4105730	DRL1333RL/8GB	1
				1.35V	16GB	A5095852, A5180156	DRL1066RQL/16GB	1
1.35V	16GB		DRL1333RL/16GB	1				
PowerEdge	R515 <sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB	128GB <sup>1)</sup>	8	4GB	A4959598	DRL1333UL/4GB	1	
				4GB	A4976344	DRL1333R2/4GB	1	
				8GB	A4849728, A4751479	DRL1333R/8GB	1	
				1.35V	4GB	A4849718	DRL1333R2L8/4GB	1
				1.35V	16GB	A5095852	DRL1066RQL/16GB	1
PowerEdge	M610 <sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory.	192GB <sup>1)</sup>	12	2GB	A4051427, A4058836,	DRL1333R/2GB	1	
				4GB	A2626067, A2627992	DRL1333R/4GB	1	
				4GB	A4976359, A4838301	DRL1333R2/4GB	1	
				4GB	A4849755, A4751470	DRL1066RQ/4GB	1	
				8GB	A2884831, A2893526	DRL1066R/8GB	1	
				8GB	A3721483, A4114489	DRL1333R/8GB	1	
				16GB	A4051426, A4058834	DRL1066RQ/16GB	1	
				1.35V	4GB	A3965765, A3983679	DRL1333R2L4/4GB	1
				1.35V	4GB	A4838324	DRL1333R2L8/4GB	1
				1.35V	8GB	A4105735, A4114484,	DRL1333RL/8GB	1
				1.35V	16GB	A5095847, A5180244	DRL1066RQL/16GB	1
1.35V	16GB	A5180172	DRL1333RL/16GB	1				
PowerEdge	M610X	192GB	12	4GB	A4976360, A4838300	DRL1333R2/4GB	1	
				1.35V	4GB	A4838283	DRL1333R2L8/4GB	1
				1.35V	16GB	A5095848, A5180152	DRL1066RQL/16GB	1
PowerEdge	R610 <sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory.	192GB <sup>1)</sup>	12	2GB	A2884829	DRL1333R/2GB	1	
				4GB	A2626060, A4114482, A2627993	DRL1333R/4GB	1	
				4GB	A4976354, A4838294	DRL1333R2/4GB	1	
				4GB	A4751471	DRL1066RQ/4GB	1	
				8GB	A2884830, A2893527	DRL1066R/8GB	1	
				8GB	A2984886, A3024615	DRL1333R/8GB	1	
				16GB	A3105230, A3138306	DRL1066RQ/16GB	1	
				1.35V	4GB	A4849725, A4838343	DRL1333R2L8/4GB	1
				1.35V	8GB	A4105730, A4114486	DRL1333RL/8GB	1
				1.35V	16GB		DRL1333RL/16GB	1
				PowerEdge	R620, M620, T620 Types Supported: UDIMM, RDIMM, or LRDIMM (do not mix) Voltages Supported: 1.35V, 1.5V Speeds Supported: 800, 1066, 1333, 1600 MHz  Consult your owners manual for configuration details	768GB	24	4GB
4GB		DRL1333R2L8/4GB	1					
8GB	A5816814	DRL1333RL/8GB	1					
16GB		DRL1333RL/16GB	1					
32GB		DRL1333LRQ/32GB	1					
4GB	A5681560, A5681562, A5816827	DRL1600R8/4GB	1					
8GB	A5681559, A5681561, A5816812	DRL1600R/8GB	1					
16GB		DRL1600R/16GB	1					
PowerEdge	T610 <sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory.	192GB <sup>1)</sup>	12	4GB	A4976345, A4838288	DRL1333R2/4GB	1	
				4GB	A2626072, A2627991	DRL1333R/4GB	1	
				4GB	A4751472	DRL1066RQ/4GB	1	
				8GB	A2884832, A2893525	DRL1066R/8GB	1	
				8GB	A2984886, A4114490	DRL1333R/8GB	1	
				16GB		DRL1066RQ/16GB	1	
				1.35V	8GB	A4105733, A4114485	DRL1333RL/8GB	1
				1.35V	16GB		DRL1333RL/16GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
PowerEdge 4 dimm slots per node.	C5220 (up to 8-node)	256GB	32	4GB	A5256357, A5276621	DRL1333UL/4GB	1
	C5220 (up to 12-node)	384GB	48	8GB	A5256356, A5276582	DRL1333UL/8GB	1
PowerEdge <sup>1)</sup> 48GB (12 slots) maximum using Unbuffered memory; 144GB using Registered memory.	C1100, C2100	144GB <sup>1)</sup>	18	2GB	A3583833, A3597106, A3866773, A3858994	DRL1333R/2GB	1
				4GB	A4838314, A4838315	DRL1333R2/4GB	1
				4GB	A3866778, A3597110, A3583831	DRL1333R/4GB	1
				4GB	A3597109, A3583829, A3858993, A3866768	DRL1066RQ/4GB	1
				8GB	A3597108, A3583832, A3858991, A3866765	DRL1066R/8GB	1
				8GB	A3858990, A3866781	DRL1333R/8GB	1
				1.35V 4GB	A4838286, A4838285, A4849715, A4849716	DRL1333R2L8/4GB	1
				PowerEdge <sup>1)</sup> 48GB maximum per node using Unbuffered memory; 192GB maximum per node using Registered memory  Up to 4 Intel two-way socket nodes in a chassis. 12 DIMM slots per node.	C6100	768GB <sup>1)</sup>	48
4GB	A4976357, A4838313	DRL1333R2/4GB	1				
4GB	A3866779	DRL1333R/4GB	1				
4GB	A3858999, A3866769	DRL1066RQ/4GB	1				
8GB	A3858997, A3866766	DRL1066R/8GB	1				
8GB	A3866782	DRL1333R/8GB	1				
1.35V 4GB	A4838284	DRL1333R2L8/4GB	1				
1.25V 8GB	A4188261, A5681558	DRL1333RL/8GB	1				
1.35V 16GB	A5093478, A5180241	DRL1066RQL/16GB	1				
PowerEdge <sup>1)</sup> 192GB maximum per node.  Up to 4 AMD two-way socket nodes in a chassis. 12 DIMM slots per node.	C6105	768GB <sup>1)</sup>	48	2GB	A4193612, A4188262	DRL1333R/2GB	1
				4GB	A4976358, A4838302	DRL1333R2/4GB	1
				4GB	A4188258, A4193616	DRL1333R/4GB	1
				8GB	A4188260, A4193614	DRL1333R/8GB	1
				16GB	A4188259, A4193615	DRL1066RQ/16GB	1
				1.35V 4GB	A4188257, A4193617	DRL1333R2L4/4GB	1
				1.35V 4GB	A4838283	DRL1333R2L8/4GB	1
1.35V 8GB	A4188261, A4193613	DRL1333RL/8GB	1				
PowerEdge <sup>1)</sup> 512GB maximum per node.  1 or 2 AMD four-way nodes in a chassis, ea with 32 slots.	C6145	1TB <sup>1)</sup>	64	4GB	A5039663, A5056471	DRL1333R2L8/4GB	1
				8GB	A5039662, A5056478	DRL1333RL/8GB	1
				16GB	A5039661, A5056445	DRL1066RQ/16GB	1
PowerEdge  <sup>1)</sup> 24GB (12 slots) maximum using Unbuffered memory; 288GB using Registered memory.	M710, M710HD	288GB <sup>1)</sup>	18	2GB	A4051432, A4058835	DRL1333R/2GB	1
				4GB	A4976361, A4838299, A4976350, A4838298	DRL1333R2/4GB	1
				4GB	A2626076, A2627990	DRL1333R/4GB	1
				8GB	A2893524, A2884833	DRL1066R/8GB	1
				8GB	A4051431, A4058832	DRL1333R/8GB	1
				16GB	A3138308, A3105232	DRL1066RQ/16GB	1
				1.35V 4GB	A4051430, A4091229	DRL1333R2L4/4GB	1
				1.35V 4GB	A4838347, A4838346	DRL1333R2L8/4GB	1
				1.35V 8GB	A4051428, A4091233	DRL1333RL/8GB	1
				1.35V 16GB	A5095849, A5180153, A5095850, A5180154	DRL1066RQL/16GB	1
1.35V 16GB	A5180171	DRL1333RL/16GB	1				
PowerEdge  <sup>1)</sup> 24GB (12 slots) maximum using Unbuffered memory; 288GB using Registered memory.	R710, T710	288GB <sup>1)</sup>	18	2GB	A3198151	DRL1333R/2GB	1
				4GB	A4976355, A4838293, A4838287	DRL1333R2/4GB	1
				4GB	A2626093, A2627989, A2937059, A2945144	DRL1333R/4GB	1
				8GB	A4188273, A2884834, A2893523, A2937058, A2941991	DRL1066R/8GB	1
				8GB	A3078601	DRL1333R/8GB	1
				16GB	A3138306, A3138292, A3138308 A3138306, A3138292	DRL1066RQ/16GB	1
				1.35V 4GB	A4051430, A4051430	DRL1333R2L4/4GB	1
				1.35V 4GB	A4849724, A4838342, A4849719, A4838337	DRL1333R2L8/4GB	1
				1.35V 8GB	A4105738, A4114483, A4105728, A4114487	DRL1333RL/8GB	1
				1.35V 16GB	A5095855	DRL1066RQL/16GB	1
				1.35V 16GB	A5180170	DRL1333RL/16GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
PowerEdge	R715  Types Supported: UDIMM or RDIMM (do not mix) Voltages Supported: 1.35V, 1.5V Speeds Supported: 800, 1066, 1333, 1600 MHz	256GB	16	2GB	A4051423, A4058845	DRL1333R/2GB	1				
				4GB	A4058842	DRL1333R/4GB	1				
				4GB	A4976356, A4838292	DRL1333R2/4GB	1				
				8GB	A4051418, A4058841	DRL1066RQ8/8GB	1				
				8GB	A4051416, A4058831	DRL1333R/8GB	1				
				16GB	A4051415, A4058833	DRL1066RQ/16GB	1				
				1.35V	4GB	A4849723, A4838341	DRL1333R2L8/4GB	1			
				1.35V	16GB	A5095853, A5180157	DRL1066RQL/16GB	1			
				1.35V	32GB	A5272862	DRL1066RQL/32GB	1			
					4GB	A5681560, A5681562, A5816827	DRL1600R8/4GB	1			
					8GB	A5681559, A5681561, A5816812	DRL1600R/8GB	1			
					16GB		DRL1600R/16GB	1			
				Consult your owners manual or Dataram Technical Support for additional configuration assistance.							
				PowerEdge	R720, R720xd  Types Supported: UDIMM, RDIMM, or LRDIMM (do not mix) Voltages Supported: 1.35V, 1.5V Speeds Supported: 800, 1066, 1333, 1600 MHz	768GB	24	4GB		DRL1333UL/4GB	1
4GB		DRL1333R2L8/4GB	1								
8GB	A5816814	DRL1333RL/8GB	1								
16GB		DRL1333RL/16GB	1								
32GB		DRL1333LRQ/32GB	1								
4GB	A5681560, A5681562, A5816827	DRL1600R8/4GB	1								
8GB	A5681559, A5681561, A5816812	DRL1600R/8GB	1								
16GB		DRL1600R/16GB	1								
Consult your owners manual for configuration details											
PowerEdge	M805, R805	128GB	16	8GB	A2018597, A2337050, A2337051	DRL667R/8GB	2				
				16GB	A2257199, A2336979	DRL667R/16GB	2				
PowerEdge	M905	192GB	24	8GB	A2337053	DRL667R/8GB	2				
				16GB	A2257200	DRL667R/16GB	2				
PowerEdge	2900, 2900 III	96GB	12	8GB	A2257181, A2336959	DRL667FB/8GB	2				
				16GB <sup>1)</sup>	A2257246	DRL667FBQ/16GB	2				
				Install DIMMs in matched pairs. Valid configurations are two, four, eight or twelve DIMMs. For optimum performance all twelve DIMMs should be identical (capacity, speed, etc). Memory sparing and memory mirroring require eight or twelve DIMMs, and all must be identical. <sup>1)</sup> 8GB Quad-Rank DIMMs require BIOS V2.3.1 or later.							
PowerEdge	6800, 6850	64GB	16 <sup>1)</sup>	2GB	A2544591, A2544579, A2525467, A2525479	DRL2850S/2GB	1 <sup>2)</sup>				
				4GB	A0763344, A0742803	DRL2850D/4GB	1 <sup>2)</sup>				
				A1461312, A1461111 <sup>1)</sup> Memory is installed on 1 to 4 riser cards. Each riser card has 4 DIMM slots arranged in 2 banks. <sup>2)</sup> DIMMs must be ordered and installed in matched pairs. If using both single and dual rank DIMMs, the dual rank DIMMs must be installed in the first bank. The DRL2850S/2GB is single-rank. The DRL2850D/4GB is dual-rank.							
PowerEdge	6950	128GB	16	8GB	A2257191, A2337055	DRL667R/8GB	2				
				16GB	A3108770, A3145223	DRL667R/16GB	2				
Install DIMMs in matched pairs; 4 DIMM slots per processor. 8GB Quad-Rank DIMMs require BIOS 1.2.12 or later. 8GB Quad-Rank DIMMs and all memory installed with them are clocked down to 533MHz.											
PowerEdge	R810	512GB	32	4GB	A3721504, A3698664	DRL1066RQ/4GB	1				
				4GB	A5327550, A5333353	DRL1333R2/4GB	1				
				4GB	A5327549	DRL1333R/4GB	1				
				8GB	A3721505, A3698648	DRL1066RQ8/8GB	1				
				16GB	A3721506, A3698690	DRL1066RQ/16GB	1				
				1.35V	4GB	A4849722, A4838340	DRL1333R2L8/4GB	1			
				1.35V	16GB	A5095854, A5180158	DRL1066RQL/16GB	1			
				1.35V	32GB	A5272862	DRL1066RQL/32GB	1			
				PowerEdge	R815	512GB	32	2GB	A3721507, A3698671	DRL1333R/2GB	1
								4GB	A5327550	DRL1333R2/4GB	1
4GB	A3721482, A3698656	DRL1333R/4GB	1								
8GB	A3721483, A3698687	DRL1333R/8GB	1								
16GB	A5433414, A4838317	DRL1066RQ/16GB	1								
1.35V	32GB	A5272862	DRL1066RQL/32GB					1			
Consult your owners manual or Dataram Technical Support for additional configuration assistance.											
PowerEdge	R900	256GB	32	8GB	A2257184, A2337011, A2257180	DRL667FB/8GB	2				
				16GB	A2257217, A2337072	DRL667FBQ/16GB	2				
PowerEdge	R905	256GB	32	8GB	A2337052	DRL667R/8GB	2				
				16GB	A2257200, A2336980	DRL667R/16GB	2				
PowerEdge	M910	512GB	32	4GB	A3721493, A3698666	DRL1066RQ/4GB	1				
				8GB	A3721494, A3698651	DRL1066RQ8/8GB	1				
				16GB	A3721495, A3698652	DRL1066RQ/16GB	1				
				1.35V	32GB	A5272862	DRL1066RQL/32GB	1			
PowerEdge	M915	512GB	32	4GB	A5185911, A5180250	DRL1333R2L8/4GB	1				
				8GB	A5185908, A5180190	DRL1333RL/8GB	1				
				16GB	A5185910, A5180243	DRL1066RQL/16GB	1				

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
PowerEdge	R910	1TB	64	4GB	A3721499, A3698665	DRL1066RQ/4GB	1
				4GB	A5272859	DRL1333R/4GB	1
				4GB	A5272860, A5276589	DRL1333R2/4GB	1
				8GB	A3721500, A3698649	DRL1066RQ8/8GB	1
		16GB	A3698691	DRL1066RQ/16GB	1		
		1.35V	4GB	A4849721, A4838339	DRL1333R2L8/4GB	1	
		1.35V	16GB	A5272861, A5276601	DRL1066RQL/16GB	1	
1.35V	32GB	A5272862, A5283563	DRL1066RQL/32GB	1			
<b>WORKSTATIONS</b>							
Precision	T1600	32GB	4	4GB	A5185894, A5180189	DRL1333U/4GB	1
				8GB	A5185893, A5180169	DRL1333UL/8GB	1
Precision	T3400	16GB	4	8GB	A2257211, A2337074	DRL800U/8GB	2
Use of the 8GB upgrade requires Bios Rev. A08 or later.							
Precision	T3500	24GB	6	4GB	A2626089, A2627994	DRL1333U/4GB	1
				4GB	A5720608	DRL1333UL/4GB	1
Precision	R5400	32GB	4	8GB	A2146192, A2337010	DRL667FB/8GB	2
				16GB		DRL667FBQ/16GB	2
Install DIMMs in matched pairs.							
Precision	T5400	64GB	8	8GB	A2257183, A2336961	DRL667FB/8GB	2
				16GB		DRL667FBQ/16GB	2
Install DIMMs in matched pairs.							
Precision	T5500	72GB <sup>1)</sup>	9 <sup>2)</sup>	2GB	A2626100, A2627976	DRL1333R/2GB	1
				4GB	A2626098, A2627988	DRL1333R/4GB	1
				4GB	A4193599	DRL1066RQ/4GB	1
				8GB	A5272881, A4193601	DRL1066R/8GB	1
				8GB	A5272881, A4193601	DRL1066R/8GB	1
				16GB	A4193597	DRL1066RQ/16GB	1
<sup>1)</sup> 12GB (6 slots maximum using Unbuffered memory; 72GB using Registered memory.)							
<sup>2)</sup> There are 6 DIMM slots on the motherboard and another 3 DIMM slots are available with optional riser card (2 CPU config.)							
Precision	R5500	192GB <sup>1)</sup>	12	4GB	A5272883	DRL1333R/4GB	1
				4GB	A5184176, A5180252	DRL1333R2/4GB	1
				8GB	A5272881, A5276606	DRL1066R/8GB	1
				4GB	A5272875, A5276585	DRL1333R2L8/4GB	1
				8GB	A5272884, A5276611	DRL1333RL/8GB	1
				16GB	A5272880, A5276604	DRL1066RQL/16GB	1
16GB	A5184178, A5180173	DRL1333RL/16GB	1				
Use of the 8GB upgrade requires Bios Rev. A08 or later.							
Precision	T7400	128GB <sup>1)</sup>	16 <sup>1)</sup>	8GB	A2257182, A2336960	DRL667FB/8GB	2
				16GB	A4501464, A4827504	DRL667FBQ/16GB	2
<sup>1)</sup> 64GB using 8 slots on main board; 128GB using 16 slots with optional riser cards (ordered at time of system purchase only).							
Precision	T7500	192GB <sup>1)</sup>	12	2GB	A2626085, A2627975	DRL1333R/2GB	1
				4GB	A2626083, A2627987	DRL1333R/4GB	1
				8GB	A4188267, A4193607	DRL1066R/8GB	1
				8GB	A4188265, A4193609	DRL1333R/8GB	1
				16GB	A3138309, A4188277, A310523	DRL1066RQ/16GB	1
<sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory.							
Precision	490	64GB	8	8GB	A2257232, A2337013	DRL667FB/8GB	2
Precision	690 (750W Model)	32GB	8	8GB	A2257178, A2337015	DRL667FB/8GB	2
	690 (1KW Model)	64GB	16 <sup>1)</sup>	8GB	A2257178, A2337015	DRL667FB/8GB	2
<sup>1)</sup> DIMMs are installed on four riser cards and DIMMs must be installed on these cards in sets of four identical DIMMs, one on each riser card.							



**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>FUJITSU</b>		<i>For the latest product news or to register for E-Flash go to <a href="http://www.dataram.com">www.dataram.com</a></i>					
<b>SPARC ENTERPRISE SERVERS</b>							
SPARC Enterprise T3-1		128GB	16	4GB	SE6X2A11Z	DRFT3/4GB	2
				8GB	SE6X2B11Z	DRFT3/8GB	2
				16GB	SE6X2C11Z	DRFT3/16GB	2
Memory must be installed in matched groups of 4, 8 or 16 DIMMs.							
SPARC Enterprise T3-2		256GB	32	8GB	SE6X2B11Z	DRFT3/8GB	2
				16GB	SE6X2C11Z	DRFT3/16GB	2
SPARC Enterprise T3-4		512GB	64	8GB	SE6X2B11Z	DRFT3/8GB	2
				16GB	SE6X2C11Z	DRFT3/16GB	2
SPARC Enterprise T5120		128GB	16	4GB	SESX2B1Z, X4203A	DRFT5220/4GB	2
				4GB	SESX2B2Z, X4203AF	DRFT5440/4GB	2
				8GB	SESX2C1Z, X4204A	DRFT5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRFT5440/16GB	2
Valid configurations are 4, 8 or 16 DIMMs of the same capacity only.							
SPARC Enterprise T5440		512GB	64 <sup>1)</sup>	4GB	SESX2B2Z, X4203AF	DRFT5440/4GB	2
				8GB	SESX2C1Z, X4204A	DRFT5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRFT5440/16GB	2
1, 2 or 4 CPU Modules (CMP's) can be installed, each having 4 FB-DIMM slots. 1, 2 or 4 Memory Modules may be installed, each having 12 FB-DIMM slots. Each CMP is paired with a Mem. Mod. All FB-DIMMs in the system must be the same capacity. Each CMP/Mem. Mod. pair supports 3 possible configurations: 4 FB-DIMMs (on the CMP), 8 FB-DIMMs (4 on the CMP, 4 on the Mem. Mod.), or 16 FB-DIMMs (4 on the CMP, 12 on the Mem. Mod.). All CMP/Mem cards must be populated the same to properly enable prtdiag display.							
SPARC Enterprise M3000		64GB	8 <sup>1)</sup>	8GB	SEWX2B2U	DRFM3000S/8GB	4
				16GB	SEWX2C1U, SEWX2C2U	DRFM3000/16GB	4
				32GB	SEWX2D1U, SEWX2D2U	DRFM3000/32GB	4
<sup>1)</sup> The 8 DIMM slots are arranged in two groups--"A" and "B". The DIMMs in group "A" must be equal or greater than those in group "B".							
SPARC Enterprise M4000		256GB	4 <sup>1)</sup>	16GB	SELX2B2Z	DRFM5000S/16GB	1 <sup>1)</sup>
				32GB	SELX2C1Z, SELX2C1P	DRFM5000/32GB	1 <sup>1)</sup>
				64GB	SELX2D1Z, SELX2D1P	DRFM5000/64GB	1 <sup>1)</sup>
				16GB	Not Offered by Fujitsu	DRFM5000DS/16GB	8 <sup>2)</sup>
				32GB	Not Offered by Fujitsu	DRFM5000D/32GB	8 <sup>2)</sup>
				64GB	Not Offered by Fujitsu	DRFM5000D/64GB	8 <sup>2)</sup>
<sup>1)</sup> The M4000 supports 2 to 4 Memory Cards, each containing 8 DIMM sockets. Fujitsu's SELX2x1Z and Dataram's DRFM5000/xxGB are Memory Cards with 8 DIMMs installed.							
<sup>2)</sup> Dataram's DRFM5000D/xxGB contain 8 DIMMs only and are meant to replace DIMMs of smaller capacity on existing Memory Cards.							
Configuration rules should be considered prior to changing system memory. Consult your system's service manual or Dataram's Sales/Customer Support.							
SPARC Enterprise M5000		512GB	8 <sup>1)</sup>	16GB	SELX2B2Z	DRFM5000S/16GB	1 <sup>1)</sup>
				32GB	SELX2C1Z, SELX2C1P	DRFM5000/32GB	1 <sup>1)</sup>
				64GB	SELX2D1Z, SELX2D1P	DRFM5000/64GB	1 <sup>1)</sup>
				16GB	Not Offered by Fujitsu	DRFM5000DS/16GB	8 <sup>2)</sup>
				32GB	Not Offered by Fujitsu	DRFM5000D/32GB	8 <sup>2)</sup>
				64GB	Not Offered by Fujitsu	DRFM5000D/64GB	8 <sup>2)</sup>
<sup>1)</sup> The M5000 supports 2 to 8 Memory Cards, each containing 8 DIMM sockets. Fujitsu's SELX2x1Z and Dataram's DRFM5000/xxGB are Memory Cards with 8 DIMMs installed.							
<sup>2)</sup> Dataram's DRFM5000D/xxGB contain 8 DIMMs only and are meant to replace DIMMs of smaller capacity on existing Memory Cards.							
Configuration rules should be considered prior to changing system memory. Consult your system's service manual or Dataram's Sales/Customer Support.							
SPARC Enterprise M8000		1TB	128 <sup>1)</sup>	64GB	SEMX2C1Z	DRFM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRFM8000/128GB	16 <sup>1)</sup>
<sup>1)</sup> The M8000 supports up to 4 CMUs, each containing 32 DIMM sockets (8 per CPU).							
SPARC Enterprise M9000-32		2TB	256 <sup>1)</sup>	64GB	SEMX2C1Z	DRFM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRFM8000/128GB	16 <sup>1)</sup>
<sup>1)</sup> The M9000 with 32 processors supports up to 8 CMUs, each containing 32 DIMM sockets (8 per CPU).							
SPARC Enterprise M9000-64		4TB	512 <sup>1)</sup>	64GB	SEMX2C1Z	DRFM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRFM8000/128GB	16 <sup>1)</sup>
<sup>1)</sup> The M9000 with 64 processors supports up to 16 CMUs, each containing 32 DIMM sockets (8 per CPU).							
<b>Primergy Tower Servers</b>							
Primergy	TX100 S3, T120 S3, TX140 S1	32GB	4	4GB	S26361-F3335-L525	DRF1333U/4GB	1
				8GB	S26361-F3335-L526	DRF1333U/8GB	1
Primergy	TX150 S7	32GB	6	4GB	S26361-F3335-L515	DRF1333U/4GB	1
				4GB	S26361-F3336-L515	DRF1333R/4GB	1
				8GB	S26361-F3336-L516	DRF1066RQ/8GB	1
Primergy	TX200 S6	96GB	12	4GB	S26361-F3604-L510	DRF1333RS/4GB	1
				4GB	S26361-F3605-L510	DRF1333RSL/4GB	1
				8GB	S26361-F3604-L515	DRF1333R/8GB	1
				8GB	S26361-F3605-L515	DRF1333RL/8GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
Primergy	TX300 S6	384GB	18	4GB	S26361-F3604-L510	DRF1333RS/4GB	1				
				4GB	S26361-F3605-L510	DRF1333RSL/4GB	1				
				8GB	S26361-F3604-L515	DRF1333R/8GB	1				
				8GB	S26361-F3605-L515	DRF1333RL/8GB	1				
				16GB	S26361-F3604-L516	DRF1066RQ/16GB	1				
				32GB	S26361-F3604-L517	DRF1066RQ/32GB	1				
Primergy	TX300 S7 12 DIMM slots per processor Maximum memory capacity determined by type of memory: 768GB = 24 x 32GB 4 Rank LRDIMMs 384GB = 24 x 16GB 2 Rank RDIMMs 128GB = 16 x 8GB 2 Rank UDIMMs	768GB	24	4GB	S26361-F3697-E514	DRF1600RSL/4GB	1				
				8GB	S26361-F3697-E515	DRF1600RL/8GB	1				
				16GB	S26361-F3697-E516	DRF1600RL/16GB	1				
				16GB	S26361-F3698-E516	DRF1333LR/16GB	1				
				32GB	S26361-F3698-E517	DRF1333LR/32GB	1				
				<b>Primergy Rack-Mount Servers</b>							
				Primergy	RX100 S7	32GB	4	4GB	S26361-F3335-L525	DRF1333U/4GB	1
8GB	S26361-F3335-L526	DRF1333U/8GB	1								
Primergy	RX200 S6	384GB	12	4GB	S26361-F3604-L510	DRF1333RS/4GB	1				
				4GB	S26361-F3605-L510	DRF1333RSL/4GB	1				
				8GB	S26361-F3604-L515	DRF1333R/8GB	1				
				8GB	S26361-F3605-L515	DRF1333RL/8GB	1				
				16GB	S26361-F3604-L516	DRF1066RQ/16GB	1				
				32GB	S26361-F3604-L517	DRF1066RQ/32GB	1				
Primergy	RX200 S7 12 DIMM slots per processor Maximum memory capacity determined by type of memory: 768GB = 24 x 32GB 4 Rank LRDIMMs 384GB = 24 x 16GB 2 Rank RDIMMs 128GB = 16 x 8GB 2 Rank UDIMMs	768GB	24	4GB	S26361-F3697-E514	DRF1600RSL/4GB	1				
				8GB	S26361-F3697-E515	DRF1600RL/8GB	1				
				16GB	S26361-F3697-E516	DRF1600RL/16GB	1				
				16GB	S26361-F3698-E516	DRF1333LR/16GB	1				
				32GB	S26361-F3698-E517	DRF1333LR/32GB	1				
				Primergy	RX300 S6	384GB	18	4GB	S26361-F3604-L510	DRF1333RS/4GB	1
								4GB	S26361-F3605-L510	DRF1333RSL/4GB	1
8GB	S26361-F3604-L515	DRF1333R/8GB	1								
8GB	S26361-F3605-L515	DRF1333RL/8GB	1								
16GB	S26361-F3604-L516	DRF1066RQ/16GB	1								
32GB	S26361-F3604-L517	DRF1066RQ/32GB	1								
Primergy	RX300 S7, R350 S7 12 DIMM slots per processor Maximum memory capacity determined by type of memory: 768GB = 24 x 32GB 4 Rank LRDIMMs 384GB = 24 x 16GB 2 Rank RDIMMs 128GB = 16 x 8GB 2 Rank UDIMMs	768GB	24	4GB	S26361-F3697-E514	DRF1600RSL/4GB	1				
				8GB	S26361-F3697-E515	DRF1600RL/8GB	1				
				16GB	S26361-F3697-E516	DRF1600RL/16GB	1				
				16GB	S26361-F3698-E516	DRF1333LR/16GB	1				
				32GB	S26361-F3698-E517	DRF1333LR/32GB	1				
				Primergy	RX600 S6	1TB	64	16GB	S26361-F4523-L642	DRF1333RSLK/16GB	4
								32GB	S26361-F4523-L643	DRF1333RLK/32GB	4
64GB	S26361-F4523-L645	DRF1066RQLK/64GB	4								
The system supports up to 8 memory boards, each containing 8 DIMM slots.											
Primergy	RX900 S1	2TB	128	16GB	S26361-F4472-L644	DRF1333RSLK/16GB	4				
				32GB	S26361-F4472-L645	DRF1333RLK/32GB	4				
				64GB	S26361-F4472-L646	DRF1066RQLK/64GB	4				
The system supports up to 8 CPU/Memory Riser boards, each containing 16 DIMM slots.											
Primergy	RX900 S2	2TB	128	16GB	S26361-F4523-L942	DRF1333RSLK/16GB	4				
				32GB	S26361-F4523-L943	DRF1333RLK/32GB	4				
				64GB	S26361-F4523-L945	DRF1066RQLK/64GB	4				
The system supports up to 8 CPU/Memory Riser boards, each containing 16 DIMM slots.											
<b>Primergy Blade Servers</b>											
Primergy Blade	BX920 S2	288GB	9	4GB	S26361-F4412-L510	DRF1333RS/4GB	1				
				4GB	S26361-F4415-L510	DRF1333RSL/4GB	1				
				8GB	S26361-F4412-L515	DRF1333R/8GB	1				
				8GB	S26361-F4415-L515	DRF1333RL/8GB	1				
				16GB	S26361-F4412-L516	DRF1066RQ/16GB	1				
				288GB when 32GB DIMMs are available 6 slots on CPU 1; 3 slots on CPU 2							
Primergy Blade	BX922 S2	192GB	12	4GB	S26361-F4412-L510	DRF1333RS/4GB	1				
				4GB	S26361-F4415-L510	DRF1333RSL/4GB	1				
				8GB	S26361-F4412-L515	DRF1333R/8GB	1				
				8GB	S26361-F4415-L515	DRF1333RL/8GB	1				
				16GB	S26361-F4412-L516	DRF1066RQ/16GB	1				
				Primergy Blade	BX924 S2	384GB	18	4GB	S26361-F4412-L510	DRF1333RS/4GB	1
4GB	S26361-F4415-L510	DRF1333RSL/4GB	1								
8GB	S26361-F4412-L515	DRF1333R/8GB	1								
8GB	S26361-F4415-L515	DRF1333RL/8GB	1								
16GB	S26361-F4412-L516	DRF1066RQ/16GB	1								
Primergy Blade	BX960 S1	512GB	32					4GB	S26361-F4412-L510	DRF1333RS/4GB	1
				4GB	S26361-F4415-L510	DRF1333RSL/4GB	1				
				8GB	S26361-F4412-L515	DRF1333R/8GB	1				
				8GB	S26361-F4415-L515	DRF1333RL/8GB	1				
				16GB	S26361-F4412-L516	DRF1066RQ/16GB	1				

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>HP</b>		<a href="http://www.dataram.com">For the latest product news or to register for E-Flash go to www.dataram.com</a>					
<b>HP 9000 UNIX SERVERS</b>							
HP 9000 rp3440-4		32GB	12	4GB	A9774A	DRH3400/4GB	4
				8GB	A9775A	DRH3400/8GB	4
				16GB	AB561A	DRH3400/16GB	4
HP 9000 rp4410-4, rp4440-8		128GB	32 <sup>1)</sup>	4GB	A7130A	DRH4440/4GB	4
				8GB	A7131A	DRH4440/8GB	4
				16GB	AB560A	DRH4440/16GB	4
<sup>1)</sup> Memory is installed on one of two possible HP Memory Cards. The A9738A is a 16-DIMM slot memory board allowing for up to 64GB of memory. The A9739A is a 32-DIMM slot memory board allowing for up to 128GB of memory.							
HP 9000 rp7440		128GB	32 <sup>1)</sup>	8GB	AB455A	DRH8640/8GB	2
<sup>1)</sup> Memory is installed on one or two HP Cell Boards, each containing 16 DIMM slots.							
HP 9000 rp8440		256GB	64 <sup>1)</sup>	8GB	AB455A	DRH8640/8GB	2
<sup>1)</sup> Memory is installed on one, two, or four HP Cell Boards, each containing 16 DIMM slots.							
<b>INTEGRITY SERVER FAMILY</b>							
Integrity BL860c		48GB	12	8GB	AD345A	DRH860/8GB	2
Double Chip Spare requires that DIMMs are loaded in like quads. DIMMs must be installed in decreasing capacity with the largest DIMMs installed in the smallest numbered DIMM slot.							
Integrity BL860c i2		384GB	24	4GB	AM326A	DRH890I2/4GB	2
				8GB	AM327A	DRH890I2/8GB	2
				16GB	AM328A	DRH890I2/16GB	2
				32GB	AM363A	DRH890I2/32GB	2
Integrity BL870c i2		768GB	48	8GB	AM327A	DRH890I2/8GB	2
				16GB	AM328A	DRH890I2/16GB	2
				32GB	AM363A	DRH890I2/32GB	2
DIMMs must be installed in sets of four (i.e. two AM327A, AM328A, DRH890I2/8GB, DRH890I2/16GB or DRH890I2/32GB kits at a time).							
Integrity BL890c i2		1.5TB	96	8GB	AM327A	DRH890I2/8GB	2
				16GB	AM328A	DRH890I2/16GB	2
				32GB	AM363A	DRH890I2/32GB	2
DIMMs must be installed in sets of four (i.e. two AM327A, AM328A, DRH890I2/8GB, DRH890I2/16GB or DRH890I2/32GB kits at a time).							
Integrity rx2600-2		32GB <sup>1)</sup>	12	8GB	A6835A, AB228A	DRH5670/8192	4
				16GB	AB475A	DRH4640/16GB	4
<sup>1)</sup> 32GB maximum using 8x4GB DIMMs.							
Integrity rx2620-2		32GB <sup>1)</sup>	12	8GB	A6835A, AB228A	DRH5670/8192	4
				16GB	AB475A	DRH4640/16GB	4
<sup>1)</sup> 32GB maximum using 8x4GB DIMMs.							
Integrity rx2660		64GB	8	4GB	AD275A	DRH2660/4GB	2
				8GB	AD276A	DRH2660/8GB	2
				16GB	Not Offered by HP	DRH2660/16GB	2
Integrity rx2800 i2		384GB	24 <sup>1)</sup>	4GB	AM229A	DRH2800I2/4GB	2
				8GB	AM230A	DRH2800I2/8GB	2
				16GB	AM231A	DRH2800I2/16GB	2
				32GB	AT067A	DRH2800I2Q/32GB	2
<sup>1)</sup> The base server comes standard with 6 DIMM slots (one 6 slot memory riser, AM246A). Up to 18 additional DIMM slots can be added by ordering up to 3 optional AM246A 6-slot memory risers. A maximum of 384 GB is supported (24x16GB DIMMs). Alternate DIMM pairs between memory risers. If both processor sockets are populated, alternate DIMMs between processors. For best performance, all DIMM slots should be populated with the same size DIMM							
Integrity rx3600		192GB	24 <sup>1)</sup>	8GB	AB565A	DRH6600/8GB	4
				16GB	AB566A	DRH6600/16GB	4
				32GB	AH405A	DRH6600/32GB	4
<sup>1)</sup> The standard rx3600 server configuration includes an 8-DIMM memory carrier which contains two 4-DIMM memory boards. An optional, high-capacity memory configuration with a 24-DIMM memory carrier containing a pair of 12-DIMM memory boards is available with this server. DIMMs are installed onto the memory carriers. The minimum server configuration requires at least one memory quad, or group of four DIMMs.							
Integrity rx4640-8		128GB	32 <sup>1)</sup>	8GB	A6970A	DRH4640/8192	4
				16GB	AB475A	DRH4640/16GB	4
<sup>1)</sup> Memory is installed on a single HP Memory Carrier Board containing 16 or 32 DIMM slots. The system can be purchased with an HP# A9738A (16 DIMM slots) or an HP# A9739A (32 DIMM slots).							
Integrity rx5670		96GB	48 <sup>1)</sup>	8GB	A6835A	DRH5670/8192	4
<sup>1)</sup> Memory is installed on one or two HP Memory Carrier Cards (A6747A), each containing 24 DIMM slots.							
Integrity rx6600		384GB	48 <sup>1)</sup>	8GB	AB565A	DRH6600/8GB	4
				16GB	AB566A	DRH6600/16GB	4
				32GB	AH405A	DRH6600/32GB	4
<sup>1)</sup> The standard rx6600 server configuration includes a 24-DIMM memory carrier and can be expanded with an additional 24-DIMM memory carrier. DIMMs are installed onto the memory carriers. The minimum server configuration requires at least one memory quad, or group of four DIMMs.							
Integrity rx7640		256GB	32 <sup>1)</sup>	8GB	AB455A	DRH8640/8GB	2
				16GB	AB456A	DRH8640/16GB	2
<sup>1)</sup> Memory is installed on one or two HP Cell Boards, each containing 16 DIMM slots.							
Integrity rx8640		512GB	64 <sup>1)</sup>	8GB	AB455A	DRH8640/8GB	2
				16GB	AB456A	DRH8640/16GB	2
<sup>1)</sup> Memory is installed on one, two, or four HP Cell Boards, each containing 16 DIMM slots.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
<b>PROLIANT BLADE SERVERS</b>											
ProLiant BL20p G2	X2800, X3060, X3200	8GB	4	2GB	300680-B21	DRH370/2048	2				
				4GB	300682-B21	DRH370/4096	2				
ProLiant BL20p G3		16GB	4	8GB	348106-B21	DRH380G4D/8GB	2				
ProLiant BL20p G4		32GB	8	8GB	397415-B21	DRH667FB/8GB	2				
DIMMs must be installed in matched pairs.											
ProLiant BL25p G2		32GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2				
<sup>1)</sup> Four DIMM slots per processor											
ProLiant BL30p	X3.06, X3.2	4GB	2	2GB	300680-B21	DRH370/2048	2				
				4GB	300682-B21	DRH370/4096	2				
ProLiant BL40p	X1.5, X2.0, X2.2, X2.8, X3.0	12GB	6	2GB	300680-B21	DRH370/2048	2				
				4GB	300682-B21	DRH370/4096	2				
ProLiant BL45p G2		64GB	16 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2				
<sup>1)</sup> Four DIMM slots per processor											
ProLiant BL2x220c G5		32GB	4	8GB	408854-B21	DRH585G2/8GB	2				
				8GB	483403-B21	DRH585G2L/8GB	2				
				16GB	408855-B21	DRH585G2/16GB	2				
ProLiant BL2x220c G6		96GB <sup>1)</sup>	6	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
					4GB	500672-B21	DRH1333U/4GB	1			
				Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
				ProLiant BL2x220c G7		96GB <sup>1)</sup>	6	4GB	500658-B21	DRH1333R/4GB	1
4GB	593339-B21	DRH1333RS/4GB	1								
8GB	500662-B21	DRH1333R/8GB	1								
16GB	500666-B21	DRH1066RQ/16GB	1								
(1.35V)	4GB	604504-B21	DRH1333RL/4GB					1			
(1.35V)	8GB	604506-B21	DRH1333RL/8GB					1			
(1.35V)	16GB	627812-B21	DRH1333RL/16GB					1			
	4GB	500672-B21	DRH1333U/4GB					1			
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.											
ProLiant BL260c G5		48GB	6					8GB	408854-B21	DRH585G2/8GB	2
				8GB	483403-B21	DRH585G2L/8GB	2				
				16GB	408855-B21	DRH585G2/16GB	2				
ProLiant BL280c G6		192GB <sup>1)</sup>	12	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1			
					4GB	500672-B21	DRH1333U/4GB	1			
				Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
ProLiant BL460c		64GB	8	4GB	461828-B21	DRH667FBL/4GB	2				
				8GB	397415-B21	DRH667FB/8GB	2				
				8GB	466440-B21	DRH667FBL/8GB	2				
				16GB	413015-B21	DRH667FB/16GB	2				
				64GB	495604-B21	DRH667FB/64GB	8				
DIMMs must be installed in matched pairs.											
HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FB/8GB are Low Power DIMMs.											
ProLiant BL460c G5		64GB	8	4GB	461828-B21	DRH667FBL/4GB	2				
				8GB	466440-B21	DRH667FBL/8GB	2				
				16GB	413015-B21	DRH667FB/16GB	2				
				64GB	495604-B21	DRH667FB/64GB	8				
ProLiant BL460c G6		192GB	12	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
				Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
ProLiant BL460c G7	See DDR3 Note #1 at top of ProLiant Servers section	384GB <sup>1)</sup>	12	4GB	500658-B21	DRH1333R/4GB	1
				4GB	593339-B21	DRH1333RS/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
				4GB	500672-B21	DRH1333U/4GB	1
		Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.					
<b>NEW</b>	<b>ProLiant BL460c G8</b>	<b>512GB</b>	<b>16</b>	<b>4GB</b>	<b>647907-B21</b>	<b>DRH81333UL/4GB</b>	<b>1</b>
	<b>8 DIMM slots per processor. Maximum memory capacity and speed is determined by type: Load-Reduced (LRDIMM), Registered (RDIMM), or Unbuffered (UDIMM).</b>			<b>8GB</b>	<b>647909-B21</b>	<b>DRH81333UL/8GB</b>	<b>1</b>
	<b>512GB = 16 x 32GB LRDIMMs 1333MHz @1.35V</b>			<b>4GB</b>	<b>647893-B21</b>	<b>DRH81333RSL/4GB</b>	<b>1</b>
	<b>256GB = 16 x 16GB RDIMMs 1600MHz @1.5V</b>			<b>8GB</b>	<b>647897-B21</b>	<b>DRH81333RL/8GB</b>	<b>1</b>
	<b>256GB = 16 x 16GB RDIMMs 1333MHz @1.35V</b>			<b>16GB</b>	<b>647901-B21</b>	<b>DRH81333RL/16GB</b>	<b>1</b>
	<b>128GB = 16 x 8GB UDIMMs 1333MHz @1.35V</b>			<b>4GB</b>	<b>647895-B21</b>	<b>DRH81600RS/4GB</b>	<b>1</b>
	<b>Dataram offerings are HP SmartMemory compatible</b>			<b>8GB</b>	<b>647899-B21</b>	<b>DRH81600RS/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>672631-B21</b>	<b>DRH81600R/16GB</b>	<b>1</b>
				<b>32GB</b>	<b>647903-B21</b>	<b>DRH81333LRQ/32GB</b>	<b>1</b>
	ProLiant BL465c						
		32GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
<sup>1)</sup> Four DIMM slots per processor							
ProLiant BL465c G5							
		64GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
				8GB	483403-B21	DRH585G2L/8GB	2
				16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
<sup>1)</sup> Four DIMM slots per processor.							
ProLiant BL465c G6							
		64GB	8 <sup>1)</sup>	16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
<sup>1)</sup> Four DIMM slots per processor.							
ProLiant BL465c G7							
		512GB	16	4GB	593911-B21	DRH165G7R/4GB	1
				4GB	604500-B21	DRH165G7RL/4GB	1
	Up to 512GB of PC3L-10600 RDIMM @1066MHz (16 x 32GB)			8GB	593913-B21	DRH165G7R/8GB	1
	Up to 256GB of PC3-10600 RDIMM @1333MHz (16 x 16GB)			8GB	604502-B21	DRH165G7RL/8GB	1
	Up to 256GB of PC3-12800 RDIMM @1600MHz (16 x 16GB)			16GB	593915-B21	DRH165G7R/16GB	1
	Up to 64GB of PC3-10600 UDIMM @1333MHz (16 x 4GB)			16GB	627808-B21	DRH165G7RL/16GB	1
				32GB	627810-B21	DRH165G7RL/32GB	1
				4GB	676331-B21	DRH1600RS/4GB	1
				8GB	676333-B21	DRH1600RS/8GB	1
				16GB	684066-B21	DRH1600R/16GB	1
				4GB	593923-B21	DRH165G7U/4GB	1
Consult your owners manual or Dataram Technical Support for addition configuration assistance.							
ProLiant BL480c							
		64GB <sup>1)</sup>	12	4GB	461828-B21	DRH667FBL/4GB	2
				8GB	397415-B21	DRH667FB/8GB	2
				8GB	466440-B21	DRH667FBL/8GB	2
				16GB	413015-B21	DRH667FB/16GB	2
				64GB	495604-B21	DRH667FB/64GB	8
<sup>1)</sup> 64GB maximum configured as 8 x 8GB DIMMs.							
HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.							
ProLiant BL490c G6							
		192GB	18	4GB	500658-B21	DRH1333R/4GB	1
				4GB	593339-B21	DRH1333RS/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				8GB	516423-B21	DRH1066R/8GB	1
	See DDR3 Note #2 at top of ProLiant Servers section			16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
ProLiant BL490c G7							
		384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1
				4GB	593339-B21	DRH1333RS/4GB	1
	<sup>1)</sup> 384GB (12 x 32GB) with Registered DIMMs;			8GB	500662-B21	DRH1333R/8GB	1
	48GB (12 x 4GB) with Unbuffered DIMMs			16GB	500666-B21	DRH1066RQ/16GB	1
	See DDR3 Note #2 at top of ProLiant Servers section		(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
				4GB	500672-B21	DRH1333U/4GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
ProLiant BL495c G5							
		128GB	16 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
				8GB	483403-B21	DRH585G2L/8GB	2
				16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
<sup>1)</sup> Eight DIMM slots per processor.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
ProLiant BL495c G6	1) Eight DIMM slots per processor.	128GB	16 <sup>1)</sup>	16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
ProLiant BL620c G7	1) 16 DIMM slots per processor. DIMMs must be installed in matched pairs. Distribute memory evenly across both processors for best performance. If mixing ranks, DIMM pairs with the highest number of ranks must be installed in the slots with white DIMM connectors.	1TB	32 <sup>1)</sup>	4GB	500658-B21	DRH1333R/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
ProLiant BL680c G5	1) 64GB maximum configured as 8 x 8GB DIMMs. HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.	128GB	16	4GB	461828-B21	DRH667FBL/4GB	2
				8GB	397415-B21	DRH667FB/8GB	2
				8GB	466440-B21	DRH667FBL/8GB	2
				16GB	413015-B21	DRH667FB/16GB	2
				64GB	495604-B21	DRH667FB/64GB	8
ProLiant BL680c G7	1) 16 DIMM slots per processor. DIMMs must be installed in matched pairs. Distribute memory evenly across both processors for best performance. If mixing ranks, DIMM pairs with the highest number of ranks must be installed in the slots with white DIMM connectors.	2TB	64 <sup>1)</sup>	4GB	500658-B21	DRH1333R/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
ProLiant BL685c	1) Four DIMM slots per processor	64GB	16 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
ProLiant BL685c G5	1) Four DIMM slots per processor	128GB	16 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
				8GB	483403-B21	DRH585G2L/8GB	2
				16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
ProLiant BL685c G6	1) Eight DIMM slots per processor.	256GB	32 <sup>1)</sup>	16GB	408855-B21	DRH585G2/16GB	2
				64GB	495605-B21	DRH585G2/64GB	8
ProLiant BL685c G7	Up to 1TB of PC3L-8500 RDIMM @800MHz (32 x 32GB) Up to 512GB of PC3-10600 RDIMM @1333MHz (32 x 16GB) Up to 512GB of PC3-12800 RDIMM @1600MHz (32 x 16GB)	1TB	32	4GB	593911-B21	DRH165G7R/4GB	1
				4GB	604500-B21	DRH165G7RL/4GB	1
				8GB	593913-B21	DRH165G7R/8GB	1
				8GB	604502-B21	DRH165G7RL/8GB	1
				16GB	593915-B21	DRH165G7R/16GB	1
				16GB	627808-B21	DRH165G7RL/16GB	1
				32GB	627810-B21	DRH165G7RL/32GB	1
				4GB	676331-B21	DRH1600RS/4GB	1
				8GB	676333-B21	DRH1600RS/8GB	1
				16GB	684066-B21	DRH1600R/16GB	1

Consult your owners manual or Dataram Technical Support for addition configuration assistance.

**PROLIANT SERVERS**

**DDR3 Note #1:** For HP ProLiant systems with 12 DIMM slots:

Systems feature 1 or 2 processors each controlling 3 memory "channels" of 2 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration: 1 DIMM per channel enables memory speed of 1333MHz; 2 DIMMs per channel reduces speed to 1066MHz\*; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel.

**DDR3 Note #2:** For HP ProLiant systems with 16 or 18 DIMM slots:

Systems feature 1 or 2 processors each controlling 3 memory "channels" of 3 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration: 1 DIMM per channel enables memory speed of 1333MHz; 2 DIMMs per channel reduces speed to 1066MHz\*; 3 DIMMs per channel reduces speed to 800MHz for single or dual-rank DIMMs; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel; 3 quad-rank DIMMs are not supported.

\*See performance tuning option available on certain systems.

ProLiant DL120 G6		16GB	6	4GB	500672-B21	DRH1333U/4GB	1
ProLiant DL120 G7		16GB	4	4GB	500672-B21	DRH1333U/4GB	1
ProLiant DL140 G2	2.8GHz, 3.4GHz, 3.6GHz	16GB	8	4GB	343057-B21	DRH380G4S/4GB	2
ProLiant DL140 G3	DIMMs must be installed in matched pairs. HP's 461828-B21 and Dataram's DRH667FBL/4GB are Low Power DIMMs.	32GB	8	4GB	461828-B21	DRH667FBL/4GB	2
				8GB	397415-B21	DRH667FB/8GB	2
ProLiant DL145 G3		32GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2
	1) Four DIMM slots per processor						

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
ProLiant DL160 G5		64GB	8	4GB	461828-B21	DRH667FBL/4GB	2				
				8GB	397415-B21	DRH667FB/8GB	2				
				8GB	466440-B21	DRH667FBL/8GB	2				
				16GB	413015-B21	DRH667FB/16GB	2				
				64GB	495604-B21	DRH667FB/64GB	8				
HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.											
ProLiant DL160 G5p		64GB	16	4GB	461828-B21	DRH667FBL/4GB	2				
				8GB	397415-B21	DRH667FB/8GB	2				
				8GB	466440-B21	DRH667FBL/8GB	2				
HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.											
ProLiant DL160se G6		192GB	12	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
See DDR3 Note #1 at top of ProLiant Servers section											
ProLiant DL160 G6		288GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				See DDR3 Note #2 at top of ProLiant Servers section	(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1		
					(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1		
					(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1		
								4GB	500672-B21	DRH1333U/4GB	1
								(1.35V)	4GB	619488-B21	DRH1333UL/4GB

<b>NEW</b>	<b>ProLiant DL160 G8</b>	<b>384GB</b>	<b>24</b>	<b>4GB</b>	<b>647907-B21</b>	<b>DRH81333UL/4GB</b>	<b>1</b>	
				<b>8GB</b>	<b>647909-B21</b>	<b>DRH81333UL/8GB</b>	<b>1</b>	
	<b>12 DIMM slots per processor. Maximum memory capacity and speed is determined by type: Registered (RDIMM) or Unbuffered (UDIMM).</b>				<b>4GB</b>	<b>647893-B21</b>	<b>DRH81333RSL/4GB</b>	<b>1</b>
					<b>8GB</b>	<b>647897-B21</b>	<b>DRH81333RL/8GB</b>	<b>1</b>
	<b>384GB = 24 x 16GB RDIMMs 1066MHz @1.35V</b>				<b>16GB</b>	<b>647901-B21</b>	<b>DRH81333RL/16GB</b>	<b>1</b>
	<b>256GB = 16 x 16GB RDIMMs 1333MHz @1.35V</b>				<b>4GB</b>	<b>647895-B21</b>	<b>DRH81600RS/4GB</b>	<b>1</b>
	<b>128GB = 16 x 8GB RDIMMs 1600MHz @1.5V</b>				<b>8GB</b>	<b>647899-B21</b>	<b>DRH81600RS/8GB</b>	<b>1</b>
	<b>128GB = 16 x 8GB UDIMMs 1333MHz @1.35V</b>							
	<b>Dataram offerings are HP SmartMemory compatible</b>							

ProLiant DL165 G5		64GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2				
				8GB	483403-B21	DRH585G2L/8GB	2				
				16GB	408855-B21	DRH585G2/16GB	2				
				64GB	495605-B21	DRH585G2/64GB	8				
<sup>1)</sup> Four DIMM slots per processor. Best performance with identical memory configurations for both processors.											
ProLiant DL165 G5p		128GB	16 <sup>1)</sup>	8GB	483403-B21	DRH585G2L/8GB	2				
				16GB	408855-B21	DRH585G2/16GB	2				
ProLiant DL165 G6		64GB	8 <sup>1)</sup>	16GB	408855-B21	DRH585G2/16GB	2				
				64GB	495605-B21	DRH585G2/64GB	8				
ProLiant DL165 G7		384GB	24	4GB	593911-B21	DRH165G7R/4GB	1				
				4GB	604500-B21	DRH165G7RL/4GB	1				
				8GB	593913-B21	DRH165G7R/8GB	1				
				8GB	604502-B21	DRH165G7RL/8GB	1				
				16GB	593915-B21	DRH165G7R/16GB	1				
				16GB	627808-B21	DRH165G7RL/16GB	1				
				Up to 384GB of PC3-12800 RDIMM @1066MHz (24 x 16GB)				4GB	676331-B21	DRH1600RS/4GB	1
								8GB	676333-B21	DRH1600RS/8GB	1
								16GB	684066-B21	DRH1600R/16GB	1
								4GB	593923-B21	DRH165G7U/4GB	1
Consult your owners manual or Dataram Technical Support for addition configuration assistance.											
ProLiant DL170h G6, ProLiant DL170e G6		192GB	16	4GB	500658-B21	DRH1333R/4GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1							
ProLiant DL180 G5		16GB	6	8GB	408854-B21	DRH585G2/8GB	2				
Only one dual-rank kit (8GB) may be installed and it must be installed in the first bank (slots 1 and 2).											
ProLiant DL180 G6		192GB <sup>1)</sup>	12	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
				See DDR3 Note #1 at top of ProLiant Servers section	(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1		
						4GB	500672-B21	DRH1333U/4GB	1		
					(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1		

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
ProLiant DL185 G5		64GB	8 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2	
				8GB	483403-B21	DRH585G2L/8GB	2	
				16GB	408855-B21	DRH585G2/16GB	2	
				64GB	495605-B21	DRH585G2/64GB	8	
ProLiant DL320 G6		144GB <sup>1)</sup>	9	4GB	500658-B21	DRH1333R/4GB	1	
				4GB	593339-B21	DRH1333RS/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				8GB	516423-B21	DRH1066R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
					4GB	500672-B21	DRH1333U/4GB	1
				(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.								
ProLiant DL360 G3	X2400, X2800, X3060, X320	8GB	4	2GB	300680-B21	DRH370/2048	2	
				4GB	300682-B21	DRH370/4096	2	
ProLiant DL360 G4	X3.0, X3.4, X3.6	8GB	4	2GB	358349-B21	DRH360G4/2GB	1 <sup>1)</sup>	
<sup>1)</sup> DIMMs must be installed in matched pairs.								
ProLiant DL360 G4p		16GB	6	4GB	343057-B21	DRH380G4S/4GB	2	
				8GB	348106-B21	DRH380G4D/8GB	2	
<sup>1)</sup> Except for a single DIMM in the 1st slot, odd numbered DIMMs are not supported--DIMMs must be installed in matched pairs. If using both single- and dual-rank DIMMs, the dual-rank DIMMs must be installed in slots 1 and 2. Dual-rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank. The Online Spare option is not supported with the use of dual-rank DIMMs.								
ProLiant DL360 G5		64GB	8	4GB	461828-B21	DRH667FBL/4GB	2	
				8GB	397415-B21	DRH667FB/8GB	2	
				8GB	466440-B21	DRH667FBL/8GB	2	
				16GB	413015-B21	DRH667FB/16GB	2	
				64GB	495604-B21	DRH667FB/64GB	8	
DIMMs must be installed in matched pairs. HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.								
ProLiant DL360 G6		192GB	18	4GB	500658-B21	DRH1333R/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				8GB	516423-B21	DRH1066R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
See DDR3 Note #2 at top of ProLiant Servers section								
ProLiant DL360 G7		384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1	
				4GB	593339-B21	DRH1333RS/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
				(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
					4GB	500672-B21	DRH1333U/4GB	1
				(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.								
<b>N E W</b>	<b>ProLiant DL360p G8</b>	<b>768GB</b>	<b>24</b>	<b>4GB</b>	<b>647907-B21</b>	<b>DRH81333UL/4GB</b>	<b>1</b>	
				<b>8GB</b>	<b>647909-B21</b>	<b>DRH81333UL/8GB</b>	<b>1</b>	
				<b>4GB</b>	<b>647893-B21</b>	<b>DRH81333RSL/4GB</b>	<b>1</b>	
				<b>8GB</b>	<b>647897-B21</b>	<b>DRH81333RL/8GB</b>	<b>1</b>	
				<b>16GB</b>	<b>647901-B21</b>	<b>DRH81333RL/16GB</b>	<b>1</b>	
				<b>4GB</b>	<b>647895-B21</b>	<b>DRH81600RS/4GB</b>	<b>1</b>	
				<b>8GB</b>	<b>647899-B21</b>	<b>DRH81600RS/8GB</b>	<b>1</b>	
				<b>16GB</b>	<b>672631-B21</b>	<b>DRH81600R/16GB</b>	<b>1</b>	
				<b>32GB</b>	<b>647903-B21</b>	<b>DRH81333LRQ/32GB</b>	<b>1</b>	
				<b>Dataram offerings are HP SmartMemory compatible</b>				
ProLiant DL365		32GB	8	8GB	408854-B21	DRH585G2/8GB	2	
Four Single-Rank DIMMs per processor node provides 2-way bank interleaving. Four Dual-Rank DIMMs per processor node provides 4-way bank interleaving. Mixing Single- and Dual-Rank DIMMs on the same processor node will disable bank interleaving. The 408854-B21 (DRH585G2/8GB) contains dual-rank DIMMs. Kits must be installed in decreasing capacity with the largest kits installed in the banks furthest away from each processor.								
ProLiant DL365 G5		32GB	8	8GB	408854-B21	DRH585G2/8GB	2	
				8GB	483403-B21	DRH585G2L/8GB	2	



**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
ProLiant DL370 G6	1) 384GB (12 x 32GB) with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs  See DDR3 Note #2 at top of ProLiant Servers section	384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1	
				4GB	593339-B21	DRH1333RS/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				8GB	516423-B21	DRH1066R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
				(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
					4GB	500672-B21	DRH1333U/4GB	1
		(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1		
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.								
ProLiant DL380 G3		12GB <sup>1)</sup>	6	2GB	300680-B21	DRH370/2048	2	
				4GB	300682-B21	DRH370/4096	2	
1) Older models with a 400MHz FSB (2.4GHz or 2.8GHz processor) cannot use 2GB DIMMs and are limited to 6GB maximum. Newer models with a 533MHz FSB (2.8GHz processor) can use 2GB DIMMs and can achieve 12GB maximum.								
ProLiant DL380 G4		16GB	6	4GB	343057-B21	DRH380G4S/4GB	2	
				8GB	348106-B21	DRH380G4D/8GB	2	
1) Except for a single DIMM in the 1st slot, odd numbered DIMMs are not supported--DIMMs must be installed in matched pairs. If using both single- and dual-rank DIMMs, the dual-rank DIMMs must be installed in slots 1 and 2. Dual-rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank. The Online Spare option is not supported with the use of dual-rank DIMMs.								
ProLiant DL380 G5	DIMMs must be installed in matched pairs. HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.	64GB	8	4GB	461828-B21	DRH667FBL/4GB	2	
				8GB	397415-B21	DRH667FB/8GB	2	
				8GB	466440-B21	DRH667FBL/8GB	2	
				16GB	413015-B21	DRH667FB/16GB	2	
				64GB	495604-B21	DRH667FB/64GB	8	
ProLiant DL380 G6	See DDR3 Note #2 at top of ProLiant Servers section	192GB	18	4GB	500658-B21	DRH1333R/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				8GB	516423-B21	DRH1066R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
ProLiant DL380 G7	1) 384GB (12 x 32GB) with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs  See DDR3 Note #2 at top of ProLiant Servers section	384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
				(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
					4GB	500672-B21	DRH1333U/4GB	1
				(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1
		Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.						
<b>NEW</b>	<b>ProLiant DL380p G8</b> 12 DIMM slots per processor. Maximum memory capacity and speed is determined by type: Load-Reduced (LRDIMM), Registered (RDIMM), or Unbuffered (UDIMM). 768GB = 24 x 32GB LRDIMMs 1066MHz @1.35V 384GB = 24 x 16GB RDIMMs 1333MHz @1.5V 256GB = 16 x 16GB RDIMMs 1600MHz @1.5V 128GB = 16 x 8GB UDIMMs 1333MHz @1.35V Dataram offerings are HP SmartMemory compatible	768GB	24	4GB	647907-B21	DRH81333UL/4GB	1	
				8GB	647909-B21	DRH81333UL/8GB	1	
				4GB	647893-B21	DRH81333RSL/4GB	1	
				8GB	647897-B21	DRH81333RL/8GB	1	
				16GB	647901-B21	DRH81333RL/16GB	1	
				4GB	647895-B21	DRH81600RS/4GB	1	
				8GB	647899-B21	DRH81600RS/8GB	1	
				16GB	672631-B21	DRH81600R/16GB	1	
				32GB	647903-B21	DRH81333LRQ/32GB	1	
		ProLiant DL385 G2	Four Single-Rank DIMMs per processor node provides 2-way bank interleaving. Four Dual-Rank DIMMs per processor node provides 4-way bank interleaving. Mixing Single- and Dual-Rank DIMMs on the same processor node will disable bank interleaving. The 408854-B21 (DRH585G2/8GB) contains dual-rank DIMMs. Kits must be installed in decreasing capacity with the largest kits installed in the banks furthest away from each processor.	32GB	8	8GB	408854-B21	DRH585G2/8GB
ProLiant DL385 G5	64GB			8	8GB	408854-B21	DRH585G2/8GB	2
					8GB	483403-B21	DRH585G2L/8GB	2
					16GB	408855-B21	DRH585G2/16GB	2
					64GB	495605-B21	DRH585G2/64GB	8
ProLiant DL385 G5p, ProLiant DL385 G6	Four Single-Rank DIMMs per processor node provides 2-way bank interleaving. Four Dual-Rank DIMMs per processor node provides 4-way bank interleaving. Mixing Single- and Dual-Rank DIMMs on the same processor node will disable bank interleaving. The 408854-B21 (DRH585G2/8GB) contains dual-rank DIMMs. Kits must be installed in decreasing capacity with the largest kits installed in the banks furthest away from each processor.	128GB	16	16GB	408855-B21	DRH585G2/16GB	2	
				64GB	495605-B21	DRH585G2/64GB	8	

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS		
ProLiant DL385 G7	Up to 512GB of DDR3 RDIMM (8 x 32GB, 16 x 16GB) Up to 64GB of PC3-10600 UDIMM (16 x 4GB)	512GB	24	4GB	593911-B21	DRH165G7R/4GB	1		
				4GB	604500-B21	DRH165G7RL/4GB	1		
				8GB	593913-B21	DRH165G7R/8GB	1		
				8GB	604502-B21	DRH165G7RL/8GB	1		
				16GB	593915-B21	DRH165G7R/16GB	1		
				16GB	627808-B21	DRH165G7RL/16GB	1		
				32GB	627810-B21	DRH165G7RL/32GB	1		
				4GB	676331-B21	DRH1600RS/4GB	1		
				8GB	676333-B21	DRH1600RS/8GB	1		
				16GB	684066-B21	DRH1600R/16GB	1		
				4GB	593923-B21	DRH165G7U/4GB	1		
		Depending on the quantity and native speed of memory modules installed, memory bus speeds can be 1600MHz, 1333MHz, 1066MHz, 800MHz, or 667MHz.							
Consult your owners manual or Dataram Technical Support for addition configuration assistance.									
ProLiant DL385 G7	1) 512GB (8 x 32GB, 16 x 16GB) with Registered DIMMs; 64GB (16 x 4GB) with Unbuffered DIMMs  2) Twelve DIMM slots per processor.	512GB <sup>1)</sup>	24 <sup>2)</sup>	4GB	593911-B21	DRH165G7R/4GB	1		
			(1.35V)	4GB	604500-B21	DRH165G7RL/4GB	1		
				8GB	593913-B21	DRH165G7R/8GB	1		
			(1.35V)	8GB	604502-B21	DRH165G7RL/8GB	1		
				16GB	593915-B21	DRH165G7R/16GB	1		
				16GB	627808-B21	DRH165G7RL/16GB	1		
			(1.35V)	32GB	627810-B21	DRH165G7RL/32GB	1		
				4GB	593923-B21	DRH165G7U/4GB	1		
		The DRH165G7R and associated HP options are standard voltage (1.5V) DDR3.							
		The DRH165G7RL and associated HP options are low-voltage (1.35V) DDR3L.							
		For detailed memory configuration rules and guidelines, please contact Dataram Customer Support.							
		ProLiant DL560	X1.5, X1.9, X2.0, X2.2 X2.5, X2.7, X2.8, X3.0	12GB	6	2GB	300680-B21	DRH370/2048	2
				4GB	300682-B21	DRH370/4096	2		
ProLiant DL580 G3		64GB	16 <sup>1)</sup>	4GB	343057-B21	DRH380G4S/4GB	2		
				8GB	348106-B21	DRH380G4D/8GB	2		
1) Memory is installed on 1 to 4 riser cards. Each riser card has 4 DIMM slots arranged in 2 banks. If using both single and dual rank DIMMs, the dual rank DIMMs must be installed in the first bank. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank.									
ProLiant DL580 G4		64GB	16 <sup>1)</sup>	4GB	343057-B21	DRH380G4S/4GB	2		
				8GB	348106-B21	DRH380G4D/8GB	2		
1) Memory is installed on 1 to 4 riser cards. Each riser card has 4 DIMM slots arranged in 2 banks. If using both single and dual rank DIMMs, the dual rank DIMMs must be installed in the first bank. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank.									
ProLiant DL580 G5		256GB	32 <sup>1)</sup>	4GB	461828-B21	DRH667FBL/4GB	2 <sup>2)</sup>		
				8GB	397415-B21	DRH667FB/8GB	2 <sup>2)</sup>		
				8GB	466440-B21	DRH667FBL/8GB	2 <sup>2)</sup>		
				16GB	413015-B21	DRH667FB/16GB	2 <sup>2)</sup>		
				64GB	495604-B21	DRH667FB/64GB	8		
		1) The DL580 G5 will be configured with 4 or 8 HP Memory Expansion Boards, each containing 4 DIMM slots. For systems configured with just 4 of these HP Expansion Boards, HP offers a DL580 G5 Memory Expansion Boards Option (452179-B21). This option consists of 4 memory expansion boards with 4 DIMM slots each for a total of 16 additional DIMM slots. This brings the DL580G5 to a total of 32 DIMM slots.							
2) To achieve maximum memory performance and flexibility, memory should be upgraded in groups of 4 identical DIMMs. HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.									
ProLiant DL580 G7		2TB	64	4GB	500658-B21	DRH1333R/4GB	1		
				8GB	500662-B21	DRH1333R/8GB	1		
				16GB	500666-B21	DRH1066RQ/16GB	1		
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1		
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1		
		The server supports up to 8 HP Memory Cartridges (HP# 588141-B21), each containing 8 DIMM slots. Quad-rank DIMMs offer better performance than dual-rank DIMMs. Performance is also improved by using identical capacity DIMMs and balancing memory across cartridges.							
ProLiant DL585	[DDR266 PC2100 Memory Options]	128GB	32 <sup>1)</sup>	2GB	300680-B21	DRH370/2048	2		
				4GB	300682-B21	DRH370/4096	2		
1) Memory is installed on 2 to 4 processor memory boards. The processor memory boards have 8 DIMM slots. All DIMMs on a particular processor memory board must be of the same capacity, but capacities may differ between processor memory boards.									
ProLiant DL585 G2		256GB	32 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2		
				16GB	408855-B21	DRH585G2/16GB	2		
				64GB	495605-B21	DRH585G2/64GB	8		
1) 32 DIMM slots (4 processor memory buses; 8 slots per processor memory bus) 667MHz memory performance requires no more than 4 DDR2-667 (PC2-5300) 4GB DIMMs per processor memory bus; any more will result in the memory slowing down to 533MHz  Four Single-Rank DIMMs (1GB DIMMs) per processor node provides 2-way bank interleaving. Four Dual-Rank DIMMs (2, 4 and 8GB DIMMs) per processor node provides 4-way bank interleaving. Mixing Single- and Dual-Rank DIMMs on the same processor node will disable bank Kits must be installed in decreasing capacity with the largest kits installed in the banks furthest away from each processor.									
ProLiant DL585 G5		256GB	32 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2		
				8GB	483403-B21	DRH585G2L/8GB	2		
				16GB	408855-B21	DRH585G2/16GB	2		
				64GB	495605-B21	DRH585G2/64GB	8		
1) 32 DIMM slots (4 processor memory buses; 8 slots per processor memory bus)									

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
ProLiant DL585 G6		256GB	32 <sup>1)</sup>	16GB	408855-B21	DRH585G2/16GB	2	
				64GB	495605-B21	DRH585G2/64GB	8	
<sup>1)</sup> 32 DIMM slots (4 processor memory buses; 8 slots per processor memory bus)								
ProLiant DL585 G7	Up to 1TB of DDR3 RDIMM (16 x 32GB, 32 x 16GB)	1TB	48	4GB	593911-B21	DRH165G7R/4GB	1	
				4GB	604500-B21	DRH165G7RL/4GB	1	
				8GB	593913-B21	DRH165G7R/8GB	1	
				8GB	604502-B21	DRH165G7RL/8GB	1	
				16GB	593915-B21	DRH165G7R/16GB	1	
				16GB	627808-B21	DRH165G7RL/16GB	1	
				32GB	627810-B21	DRH165G7RL/32GB	1	
				4GB	676331-B21	DRH1600RS/4GB	1	
Depending on the quantity and native speed of memory modules installed, memory bus speeds can be 1600MHz, 1333MHz, 1066MHz, 800MHz, or 667MHz.								
Consult your owners manual or Dataram Technical Support for addition configuration assistance.								
ProLiant DL785 G5		512GB	64 <sup>1)</sup>	8GB	408854-B21	DRH585G2/8GB	2	
				8GB	483403-B21	DRH585G2L/8GB	2	
				16GB	408855-B21	DRH585G2/16GB	2	
				64GB	495605-B21	DRH585G2/64GB	8	
<sup>1)</sup> The server supports 4 or 8 Processor Memory Cell Boards. Each Cell Board contains one processor socket and 8 DIMM slots.								
Valid configurations are 4 Cell Boards or 8 Cell Boards (32 or 64 DIMM slots). A minimum of two DIMMs (1 kit) must be installed per processor. Each Cell Board must contain the same number of DIMMs. DIMMs must be installed in matched pairs. DIMMs installed in different banks can be different capacities.								
ProLiant DL785 G6		512GB	64 <sup>1)</sup>	8GB	483403-B21	DRH585G2L/8GB	2	
				16GB	408855-B21	DRH585G2/16GB	2	
				64GB	495605-B21	DRH585G2/64GB	8	
								Valid configurations are 4 Cell Boards or 8 Cell Boards (32 or 64 DIMM slots). A minimum of two DIMMs (1 kit) must be installed per processor. Each Cell Board must contain the same number of DIMMs. DIMMs must be installed in matched pairs. DIMMs installed in different banks can be different capacities.
ProLiant DL980 G7		4TB	128	4GB	593339-B21	DRH1333RS/4GB	1	
				8GB	A0R56A	DRH980/8GB	1	
				16GB	A0R55A	DRH980Q/16GB	1	
				(1.35V)	4GB	A0R57A	DRH980L/4GB	1
				(1.35V)	8GB	A0R58A	DRH980L/8GB	1
				(1.35V)	16GB	A0R59A	DRH980L/16GB	1
				(1.35V)	32GB	A0R61A	DRH980QL/32GB	1
				The server supports up to 16 HP Memory Cartridges (HP# 588141-B21 or A0R60A), each containing 8 DIMM slots. Quad-rank DIMMs offer better performance than dual-rank DIMMs. Performance is also improved by using identical capacity DIMMs and balancing memory across cartridges.				
ProLiant ML110 G6		16GB	4	4GB	500672-B21	DRH1333U/4GB	1	
ProLiant ML110 G7		16GB	4	4GB	500672-B21	DRH1333U/4GB	1	
ProLiant ML150 G2	X2.8, X3.0, X3.2	8GB	4	2GB	358349-B21	DRH360G4/2GB	1 <sup>1)</sup>	
<sup>1)</sup> Except for a single DIMM in the first slot, memory must be installed in matched pairs. Three DIMMs are not supported.								
ProLiant ML150 G5		16GB	6	8GB	408854-B21	DRH585G2/8GB	2	
Only one dual-rank kit (8GB) may be installed and it must be installed in the first bank (slots 1 and 2).								
ProLiant ML150 G6	See DDR3 Note #1 at top of ProLiant Servers section	48GB	12	4GB	500658-B21	DRH1333R/4GB	1	
				4GB	500672-B21	DRH1333U/4GB	1	
ProLiant ML330 G6	See DDR3 Note #2 at top of ProLiant Servers section	192GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1	
				4GB	593339-B21	DRH1333RS/4GB	1	
				8GB	500662-B21	DRH1333R/8GB	1	
				8GB	516423-B21	DRH1066R/8GB	1	
				16GB	500666-B21	DRH1066RQ/16GB	1	
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
				4GB	500672-B21	DRH1333U/4GB	1	
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.								
ProLiant ML350 G4p	X3.0, X3.2, X3.4	16GB	6	4GB	343057-B21	DRH380G4S/4GB	2	
				8GB	348106-B21	DRH380G4D/8GB	2	
<sup>1)</sup> Except for a single DIMM in the 1st slot, odd numbered DIMMs are not supported--DIMMs must be installed in matched pairs. If using both single- and dual-rank DIMMs, the dual-rank DIMMs must be installed in slots 1 and 2. Dual-rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank. The Online Spare option is not supported with the use of dual-rank DIMMs.								
ProLiant ML350 G5		32GB <sup>1)</sup>	8	4GB	461828-B21	DRH667FBL/4GB	2	
				8GB	397415-B21	DRH667FB/8GB	2	
				8GB	466440-B21	DRH667FBL/8GB	2	
<sup>1)</sup> Maximum supported memory is 16GB for Dual-Core and 32GB on Quad-Core models.								
<sup>2)</sup> Except for a single DIMM in the first slot, memory must be installed in matched pairs. Three DIMMs are not supported.								
HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.								

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS		
ProLiant ML350 G6		288GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1		
				4GB	593339-B21	DRH1333RS/4GB	1		
				8GB	500662-B21	DRH1333R/8GB	1		
				8GB	516423-B21	DRH1066R/8GB	1		
				16GB	500666-B21	DRH1066RQ/16GB	1		
				See DDR3 Note #2 at top of ProLiant Servers section	(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
					(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
					(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
						4GB	500672-B21	DRH1333U/4GB	1
					(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.									
<b>N E W</b>	<b>ProLiant ML350p G8</b>	<b>384GB</b>	<b>24</b>	<b>4GB</b>	<b>647907-B21</b>	<b>DRH81333UL/4GB</b>	<b>1</b>		
	<b>12 DIMM slots per processor. Maximum memory capacity and speed is determined by type: Registered (RDIMM) or Unbuffered (UDIMM).</b>			<b>8GB</b>	<b>647909-B21</b>	<b>DRH81333UL/8GB</b>	<b>1</b>		
				<b>4GB</b>	<b>647893-B21</b>	<b>DRH81333RSL/4GB</b>	<b>1</b>		
				<b>8GB</b>	<b>647897-B21</b>	<b>DRH81333RL/8GB</b>	<b>1</b>		
				<b>16GB</b>	<b>647901-B21</b>	<b>DRH81333RL/16GB</b>	<b>1</b>		
	<b>384GB = 24 x 16GB RDIMMs 1333MHz @1.5V</b>			<b>4GB</b>	<b>647895-B21</b>	<b>DRH81600RS/4GB</b>	<b>1</b>		
	<b>256GB = 16 x 16GB RDIMMs 1600MHz @1.5V</b>			<b>8GB</b>	<b>647899-B21</b>	<b>DRH81600RS/8GB</b>	<b>1</b>		
	<b>256GB = 16 x 16GB RDIMMs 1333MHz @1.35V</b>			<b>16GB</b>	<b>672631-B21</b>	<b>DRH81600R/16GB</b>	<b>1</b>		
	<b>128GB = 16 x 8GB UDIMMs 1333MHz @1.35V</b>								
	<b>Dataram offerings are HP SmartMemory compatible</b>								
ProLiant ML370 G3	X2400, X2800, X3060, X320	12GB	6	2GB	300680-B21	DRH370/2048	2		
				4GB	300682-B21	DRH370/4096	2		
ProLiant ML370 G4		16GB	8	4GB	343057-B21	DRH380G4S/4GB	2		
ProLiant ML370 G5		128GB	16 <sup>1)</sup>	4GB	461828-B21	DRH667FBL/4GB	2		
				8GB	397415-B21	DRH667FB/8GB	2		
				8GB	466440-B21	DRH667FBL/8GB	2		
				16GB	413015-B21	DRH667FB/16GB	2		
<sup>1)</sup> 8 Slots per HP Memory Card; up to 2 HP Memory Cards supported. DIMMs must be installed in matched pairs. HP's 461828-B21, 466440-B21 and Dataram's DRH667FBL/4GB, DRH667FBL/8GB are Low Power DIMMs.									
ProLiant ML370 G6		384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1		
				4GB	593339-B21	DRH1333RS/4GB	1		
				8GB	500662-B21	DRH1333R/8GB	1		
				8GB	516423-B21	DRH1066R/8GB	1		
				16GB	500666-B21	DRH1066RQ/16GB	1		
				See DDR3 Note #2 at top of ProLiant Servers section	(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
					(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
					(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
					(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
						4GB	500672-B21	DRH1333U/4GB	1
	(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1				
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.									
ProLiant ML370 G6		192GB	18	4GB	500658-B21	DRH1333R/4GB	1		
				4GB	593339-B21	DRH1333RS/4GB	1		
				8GB	500662-B21	DRH1333R/8GB	1		
				8GB	516423-B21	DRH1066R/8GB	1		
				16GB	500666-B21	DRH1066RQ/16GB	1		
See DDR3 Note #2 at top of ProLiant Servers section									
ProLiant ML570 G3		64GB	24 <sup>1)</sup>	4GB	343057-B21	DRH380G4S/4GB	2		
				8GB	348106-B21	DRH380G4D/8GB	2		
<sup>1)</sup> Memory is installed on 1 to 4 riser cards. Each riser card has 6 DIMM slots arranged in 3 banks. If using both single and dual rank DIMMs, the dual rank DIMMs must be installed in the first bank. Dual rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank.									
ProLiant ML570 G4		64GB	24 <sup>1)</sup>	4GB	343057-B21	DRH380G4S/4GB	2		
				8GB	348106-B21	DRH380G4D/8GB	2		
<sup>1)</sup> Memory is installed on 1 to 4 riser cards. Each riser card has 6 DIMM slots arranged in 3 banks. If using both single and dual rank DIMMs, the dual rank DIMMs must be installed in the first bank. Dual rank DIMMs are not supported in slots 5 and 6. No more than the equivalent of eight ranks are supported. The DRH380G4S/4GB is single-rank. The DRH380G4D/8GB is dual-rank.									
ProLiant SL160s G6		384GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1		
				4GB	593339-B21	DRH1333RS/4GB	1		
				8GB	500662-B21	DRH1333R/8GB	1		
				16GB	500666-B21	DRH1066RQ/16GB	1		
				See DDR3 Note #2 at top of ProLiant Servers section	(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
					(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
					(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
					(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
						4GB	500672-B21	DRH1333U/4GB	1
				Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.					

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
ProLiant SL160z G6	288GB with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs	288GB <sup>1)</sup>	18	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
				(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1			
					4GB	500672-B21	DRH1333U/4GB	1			
				(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1			
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.											
ProLiant SL165z G6		128GB	16	8GB	483403-B21	DRH585G2L/8GB	2				
				16GB	408855-B21	DRH585G2/16GB	2				
				64GB	495605-B21	DRH585G2/64GB	8				
ProLiant SL165s G7, SL165z G7	256GB (8 x 16GB, 16 x 8GB) with Registered DIMMs; 64GB (16 x 4GB) with Unbuffered DIMMs	256GB <sup>1)</sup>	24 <sup>2)</sup>	4GB	593911-B21	DRH165G7R/4GB	1				
				(1.35V)	4GB	604500-B21	DRH165G7RL/4GB	1			
					8GB	593913-B21	DRH165G7R/8GB	1			
				(1.35V)	8GB	604502-B21	DRH165G7RL/8GB	1			
					16GB	593915-B21	DRH165G7R/16GB	1			
					4GB	593923-B21	DRH165G7U/4GB	1			
				The DRH165G7R and associated HP options are standard voltage (1.5V) DDR3. The DRH165G7RL and associated HP options are low-voltage (1.35V) DDR3L. For detailed memory configuration rules and guidelines, please contact Dataram Customer Support.							
				ProLiant SL170s G6	288GB with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs	256GB <sup>1)</sup>	16	4GB	500658-B21	DRH1333R/4GB	1
								4GB	593339-B21	DRH1333RS/4GB	1
								8GB	500662-B21	DRH1333R/8GB	1
8GB	516423-B21	DRH1066R/8GB	1								
16GB	500666-B21	DRH1066RQ/16GB	1								
(1.35V)	4GB	604504-B21	DRH1333RL/4GB					1			
(1.35V)	8GB	604506-B21	DRH1333RL/8GB					1			
(1.35V)	16GB	627812-B21	DRH1333RL/16GB					1			
	4GB	500672-B21	DRH1333U/4GB					1			
(1.35V)	4GB	619488-B21	DRH1333UL/4GB					1			
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.											
ProLiant SL170z G6, ProLiant SL2x170z G6 <sup>1)</sup>	192GB (12 x 16GB) with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs	192GB <sup>2)</sup>	16	4GB	500658-B21	DRH1333R/4GB	1				
				4GB	593339-B21	DRH1333RS/4GB	1				
				8GB	500662-B21	DRH1333R/8GB	1				
				8GB	516423-B21	DRH1066R/8GB	1				
				16GB	500666-B21	DRH1066RQ/16GB	1				
				(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1			
				(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1			
				(1.35V)	4GB	500672-B21	DRH1333U/4GB	1			
				(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1			
				Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
<b>NEW</b>	<b>ProLiant SL230s G8, SL250s G8</b>	<b>256GB</b>	<b>16</b>	<b>4GB</b>	<b>647907-B21</b>	<b>DRH81333UL/4GB</b>	<b>1</b>				
				<b>8GB</b>	<b>647909-B21</b>	<b>DRH81333UL/8GB</b>	<b>1</b>				
				<b>4GB</b>	<b>647893-B21</b>	<b>DRH81333RSL/4GB</b>	<b>1</b>				
				<b>8GB</b>	<b>647897-B21</b>	<b>DRH81333RL/8GB</b>	<b>1</b>				
				<b>16GB</b>	<b>647901-B21</b>	<b>DRH81333RL/16GB</b>	<b>1</b>				
				<b>4GB</b>	<b>647895-B21</b>	<b>DRH81600RS/4GB</b>	<b>1</b>				
				<b>8GB</b>	<b>647899-B21</b>	<b>DRH81600RS/8GB</b>	<b>1</b>				
				<b>16GB</b>	<b>672631-B21</b>	<b>DRH81600R/16GB</b>	<b>1</b>				
				<b>8 DIMM slots per processor. Maximum memory capacity and speed is determined by type: Load-Reduced (LRDIMM), Registered (RDIMM), or Unbuffered (UDIMM).</b>							
				<b>256GB = 16 x 16GB RDIMMs 1600MHz @1.5V</b>							
<b>256GB = 16 x 16GB RDIMMs 1333MHz @1.35V</b>											
<b>128GB = 16 x 8GB UDIMMs 1333MHz @1.35V</b>											
<b>Dataram offerings are HP SmartMemory compatible</b>											
ProLiant SL335s G7	192GB with Registered DIMMs; 32GB (8 x 4GB) with Unbuffered DIMMs	192GB <sup>1)</sup>	12	4GB	604500-B21	DRH165G7RL/4GB	1				
				8GB	593913-B21	DRH165G7R/8GB	1				
				(1.35V)	8GB	604502-B21	DRH165G7RL/8GB	1			
					16GB	593915-B21	DRH165G7R/16GB	1			
				(1.35V)	16GB	627810-B21	DRH165G7RL/16GB	1			
					4GB	593923-B21	DRH165G7U/4GB	1			
				The DRH165G7R and associated HP options are standard voltage (1.5V) DDR3. The DRH165G7RL and associated HP options are low-voltage (1.35V) DDR3L. For detailed memory configuration rules and guidelines, please contact Dataram Customer Support.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
ProLiant SL390s G7	<sup>1)</sup> 384GB (12 x 32GB) with Registered DIMMs; 48GB (12 x 4GB) with Unbuffered DIMMs	384GB <sup>1)</sup>	12	4GB	500658-B21	DRH1333R/4GB	1
				4GB	593339-B21	DRH1333RS/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
			(1.35V)	16GB	627812-B21	DRH1333RL/16GB	1
			(1.35V)	32GB	627814-B21	DRH1066RQL/32GB	1
				4GB	500672-B21	DRH1333U/4GB	1
			(1.35V)	4GB	619488-B21	DRH1333UL/4GB	1

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.

**PROLIANT WORKSTATION BLADES**

ProLiant WS460c G6	<sup>1)</sup> 192GB with Registered DIMMs; 48GB with Unbuffered DIMMs  See DDR3 Note #1 at top of ProLiant Servers section	192GB <sup>1)</sup>	12	4GB	500658-B21	DRH1333R/4GB	1
				4GB	593339-B21	DRH1333RS/4GB	1
				8GB	500662-B21	DRH1333R/8GB	1
				8GB	516423-B21	DRH1066R/8GB	1
				16GB	500666-B21	DRH1066RQ/16GB	1
			(1.35V)	4GB	604504-B21	DRH1333RL/4GB	1
			(1.35V)	8GB	604506-B21	DRH1333RL/8GB	1
		4GB	500672-B21	DRH1333U/4GB	1		

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.

**PERSONAL WORKSTATIONS**

<b>NEW</b>	<b>Z1</b>	<b>32GB</b>	<b>4</b>	<b>8GB</b>	<b>A2H31AV</b>	<b>DRHZ1X2E/8GB</b>	<b>2</b>
				<b>16GB</b>	<b>A2H32AV</b>	<b>DRHZ1X4E/16GB</b>	<b>4</b>
				<b>16GB</b>	<b>A2H33AV</b>	<b>DRHZ1X2E/16GB</b>	<b>2</b>
				<b>32GB</b>	<b>A2H34AV</b>	<b>DRHZ1X4E/32GB</b>	<b>4</b>

Z200, Z400 (older Z400 models with 4 slots)	16GB	4	2GB	FX699AA, FX699UT	DRHZ600U/2GB	1
			4GB	NL797AA	DRHZ600U/4GB	1

Although these are DDR3-1333 memory options, the speed at which they operate is dependent upon the processor model.

Z400 (newer models with 6 slots)	24GB	6	2GB	FX699AA, FX699UT	DRHZ600U/2GB	1
			4GB	NL797AA	DRHZ600U/4GB	1

Although these are DDR3-1333 memory options, the speed at which they operate is dependent upon the processor model.

<b>NEW</b>	<b>Z420</b>	<b>64GB</b>	<b>8</b>	<b>4GB</b>	<b>A2Z48AA</b>	<b>DRHZ420/4GB</b>	<b>1</b>
				<b>8GB</b>	<b>A2Z50AA</b>	<b>DRHZ420/8GB</b>	<b>1</b>

Z600	<sup>1)</sup> 24GB maximum with Unbuffered DIMMs; 48GB maximum with Registered DIMMs	48GB <sup>1)</sup>	6	2GB	FX699AA, FX699UT	DRHZ600U/2GB	1
				4GB	NL797AA	DRHZ600U/4GB	1
				4GB	FX621AA, FX621UT	DRHZ800R/4GB	1
		8GB	FX622AA	DRHZ800R/8GB	1		

The use of Registered DIMMs requires a system board with a C2 revision of the Intel 5520 chipset.

Each processor supports up to 3 channels of DDR3 memory. To realize full performance at least 1 DIMM must be inserted into each channel. To get full 6 channel support, 2 processors MUST be installed.

Although these are DDR3-1333 memory options, the speed at which they operate is dependent upon the processor model.

<b>NEW</b>	<b>Z620</b>	<b>96GB</b>	<b>12</b>	<b>4GB</b>	<b>A2Z48AA</b>	<b>DRHZ420/4GB</b>	<b>1</b>
				<b>8GB</b>	<b>A2Z50AA</b>	<b>DRHZ420/8GB</b>	<b>1</b>
				<b>4GB</b>	<b>A2Z49AA</b>	<b>DRHZ820/4GB</b>	<b>1</b>
				<b>8GB</b>	<b>A2Z51AA</b>	<b>DRHZ820/8GB</b>	<b>1</b>

*Single CPU models: 8 DIMM slots; 64GB max*  
*Dual CPU models: 12 DIMM slots; 96GB max*  
 Use RDIMMs or UDIMMs; do not mix

Z800	<sup>1)</sup> 24GB maximum using Unbuffered memory; 192GB using Registered memory. See DDR3 Note #1 at top of ProLiant Servers section	192GB <sup>1)</sup>	12	2GB	FX699AA, FX699UT	DRHZ600U/2GB	1
				4GB	FX621AA, FX621UT	DRHZ800R/4GB	1
				8GB	FX622AA	DRHZ800R/8GB	1
				16GB	NL674AA	DRHZ800RQ/16GB	1

<b>NEW</b>	<b>Z820</b>	<b>512GB</b>	<b>16</b>	<b>4GB</b>	<b>A2Z49AA</b>	<b>DRHZ820/4GB</b>	<b>1</b>
				<b>8GB</b>	<b>A2Z51AA</b>	<b>DRHZ820/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>A2Z52AA</b>	<b>DRHZ820/16GB</b>	<b>1</b>
				<b>32GB</b>	<b>A2Z53AA</b>	<b>DRHZ820/32GB</b>	<b>1</b>

*Single CPU models: 8 DIMM slots; 256GB max*  
*Dual CPU models: 16 DIMM slots; 512GB max*  
 Use RDIMMs or LRDIMMs; do not mix

xw4300	8GB	4	2GB	PV942A	DRHXW4306E/2GB	1 <sup>1)</sup>
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<sup>1)</sup> For best performance add DIMMs in matched pairs, and the total amount and type of memory installed in Channel A (slots 1 & 3) and Channel B (slots 2 & 4) should be the same. Mixing ECC and Non-ECC memory is not supported. HP's PV94xA and Dataram's DRHXW4306E are ECC DDR2-667.

xw4400	8GB	4	2GB	PV942A	DRHXW4306E/2GB	1 <sup>1)</sup>
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<sup>1)</sup> For best performance add DIMMs in matched pairs, and the total amount and type of memory installed in Channel A (slots 1 & 3) and Channel B (slots 2 & 4) should be the same. Mixing ECC and Non-ECC memory is not supported. HP's PV94xA and Dataram's DRHXW4306E are ECC DDR2-667.

xw4600	16GB	4	2GB	PV942A	DRHXW4306E/2GB	1 <sup>1)</sup>
			2GB	GH740AA	DRHXW4600/2GB	1 <sup>1)</sup>
			4GB	VH933AA	DRHXW4600/4GB	1 <sup>1)</sup>

<sup>1)</sup> For best performance the total amount and type of memory loaded into Channel 1 and Channel 2 should be the same and should be loaded in pairs. Mixing ECC and Non-ECC memory is not supported. Mixing speeds will cause the system to run at the slower 667MHz.

HP's PV942A and Dataram's DRHXW4306E/2GB are ECC DDR2-667. HP's GH740AA, VH933AA and Dataram's DRHXW4600/xGB are ECC DDR2-800.

**DATARAM MEMORY PRODUCTS**

<b>FAMILY</b>	<b>MODEL</b>	<b>MAX</b>	<b>SLOTS</b>	<b>SIZE</b>	<b>MANUFACTURER #</b>	<b>DATARAM #</b>	<b>BOARDS</b>
xw6000		8GB	4	4GB	(2x)AA834A	DRHXW6000/4096	2
xw6400		16GB	4	4GB	EM162AA	DRHXW8400/4GB	1
Except for a single DIMM in the 1st slot, DIMMs must be installed in matched pairs. Three DIMMs are not supported.							
xw6600		32GB	8	4GB	EM162AA	DRHXW8400/4GB	1 <sup>1)</sup>
DIMMs must be installed in matched pairs.							
xw8000		12GB	6	4GB	(2x)AA834A	DRHXW6000/4096	2
xw8400		32GB	8	4GB	EM162AA	DRHXW8400/4GB	1
Except for a single DIMM in the 1st slot, DIMMs must be installed in matched pairs. Three DIMMs are not supported.							
xw8600	without riser cards	32GB	8	4GB	EM162AA	DRHXW8400/4GB	1
	with riser cards	128GB	16	4GB	EM162AA	DRHXW8400/4GB	1
				8GB	GM112AA	DRHXW8600/8GB	1
DIMMs must be ordered and installed in matched pairs on the system board and in quads on the riser cards.							
xw9400		64GB	8 <sup>1)</sup>	4GB	EV284AA	DRHXW9400/4GB	1
				8GB	Not Offered by HP	DRHXW9400D/8GB	1

<sup>1)</sup> 4 DIMM slots per processor socket. DIMMs must be ordered and installed in matched pairs.

**Mobile Workstations**

EliteBook	8760w, 8560w	32GB	4	4GB	AT913AA	DRHMW8760/4GB	1
				8GB	QP013AA	DRHMW8760/8GB	1
Four slots only on models with quad-core processors							
EliteBook	8460w	16GB	2	4GB	AT913AA	DRHMW8760/4GB	1
				8GB	QP013AA	DRHMW8760/8GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>IBM</b>		<a href="http://www.dataram.com">For the latest product news or to register for E-Flash go to www.dataram.com</a>					
<b>POWER SYSTEMS (System p, System i)</b>							
pSeries 615	7029-6C3, 7029-6E3	16GB	8	8GB	4449	DRI615/8192	4
System p5 505/505Q	9115-505	32GB	8	8GB	1934	DRI550D2/8GB	2 <sup>1)</sup>
<sup>1)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.							
System p5 510/510Q	9110-51A	32GB	8	8GB	1934	DRI550D2/8GB	2 <sup>1)</sup>
<sup>1)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.							
eServer p5 510	9110-510	32GB	8 <sup>1)</sup>	8GB	4449	DRI615/8192	4
<sup>1)</sup> System supports one IBM Processor Card containing 8 DIMM slots.							
		16GB		16GB	4450	DRI550/16GB	4
Power 520	9407-M15	16GB	4	8GB	4523	DRI520P6/8GB	2
Memory is added in pairs. All DIMMs must be of the same capacity.							
Power 520	9408-M25	32GB	4	8GB	4523	DRI520P6/8GB	2
				16GB	4524	DRI520P6/16GB	2
Memory is added in pairs. All DIMMs must be of the same capacity.							
Power 520	8203-E4A	64GB	8 <sup>1)</sup>	8GB	4523	DRI520P6/8GB	2
				16GB	4524	DRI520P6/16GB	2
<sup>1)</sup> Models with one single-core processor use 4 DIMM slots, support 16GB maximum and cannot utilize 16GB kits. Models with one dual-core processor use 4 DIMM slots and support 32GB maximum. 4-core models use 8 DIMM slots, 64GB maximum. Models with two dual-core processors use 8 DIMM slots (4 per processor) and support 64GB maximum. All DIMMs per processor must be of the same capacity. For optimum performance balance the memory equally across both processors.							
Power 550	9409-M50	128GB	16 <sup>1)</sup>	8GB	4523	DRI520P6/8GB	2
				16GB	4524	DRI520P6/16GB	2
<sup>1)</sup> Memory is installed on 1 or 2 processor cards, each having 8 DIMM slots. Memory is added in pairs. All DIMMs on a processor card must be the same capacity.							
Power 550	8204-E8A	256GB	32 <sup>1)</sup>	8GB	4523	DRI520P6/8GB	2
				16GB	4524	DRI520P6/16GB	2
<sup>1)</sup> Memory is installed on 1 to 4 processor cards, each having 8 DIMM slots. DIMMs must be added in matched sets of 2, 4, or 8. All DIMMs on a processor card must be the same capacity. Distribute memory evenly across all processor cards in the system for best performance.							
System p5 520/520Q	9131-52A	32GB	8	8GB	1934	DRI550D2/8GB	2 <sup>1)</sup>
<sup>1)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.							
eServer p5 520	9111-520	32GB	8 <sup>1)</sup>	8GB	4449	DRI615/8192	4
				16GB	4450	DRI550/16GB	4
<sup>1)</sup> System supports one IBM Processor Card containing 8 DIMM slots.							
System p5 550/550Q	9133-55A	64GB	16 <sup>1)</sup>	8GB	1934	DRI550D2/8GB	2 <sup>1)</sup>
<sup>1)</sup> System supports a maximum of 2 IBM Processor/Memory Cards. <sup>2)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.							
eServer p5 550	9113-550	64GB	16 <sup>1)</sup>	8GB	4449	DRI615/8192	4
				16GB	4450	DRI550/16GB	4
<sup>1)</sup> System supports two IBM Processor Cards each containing 8 DIMM slots.							
System p5 560Q	9116-561	128GB	16 <sup>1)</sup>	8GB	1934	DRI550D2/8GB	2 <sup>1)</sup>
<sup>1)</sup> System features a 4U drawer as its basic building block and up to two drawers are supported in a single rack. Each drawer supports two IBM Processor/Memory Cards, each containing one or two processors and 8 DIMM slots. <sup>2)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.							
pSeries 630	7028-6C4, 7028-6E4	32GB	2 <sup>1)</sup>	8GB	4454	DRI630/8192	4
<sup>1)</sup> Memory is installed on 1 or 2 processor cards, each supporting 1 or 2 processors. Each processor card contains 8 DIMM slots. DIMMs must be added in sets of 4 identical modules. For 4-way configurations memory should be balanced across both processor cards for the best performance.							
System p5 570	9117-570	512GB	64 <sup>1)</sup>	8GB	7894	DRI575D2/8GB	4
(with POWER5+ Processors & DDR2 Memory)				16GB	4497	DRI570D2/16GB	4
<sup>1)</sup> Memory is installed on 2 or 8 IBM Processor Cards each containing 8 DDR2 DIMM slots. Balance memory across processors for best performance. <sup>2)</sup> 32GB kits are supported on 2.2GHz processor cards only and except for IBM's FC4499 cannot be mixed with any other capacity on the same card.							
eServer p5 570	9117-570	512GB	64 <sup>1)</sup>	8GB	4454	DRI630/8192	4
(with POWER5 Processors)				16GB	4491	DRI570/16GB	4
<sup>1)</sup> Memory is installed on 2 or 8 IBM Processor Cards each containing 8 DIMM slots. DDR1 memory is supported on 1.5 GHz processor cards (#7834), 1.65 GHz processor cards (#7830), and 1.9 GHz processor cards (#7832). DDR2 memory is supported on 1.9 GHz processor cards (#7833), 1.9 GHz processor card (#7782), and 2.2 GHz processor card (#8338). The 4GB, 8GB, or 16GB memory kits cannot be used with the 32GB memory kit. All DIMMs in a 570 system must use the same memory technology, either DDR1 or DDR2. IBM and Dataram options listed are DDR1 type memory.							
System p5 575	9118-575	256GB	64	8GB	7894	DRI575D2/8GB	4
(with POWER5+ Processors & DDR2 Memory)							
eServer p5 575	9118-575	256GB	64	8GB	4454	DRI630/8192	4
(with POWER5 Processors)				16GB	4491	DRI570/16GB	4
All memory listed above is DDR1. The p5-575 with POWER5 processors uses DDR1 type DIMMs. The p5-575 with POWER5+ processors uses DDR2 type DIMMs. Dataram does not offer DDR2 type memory for the p5 575.							
pSeries 650	7038-6M2	64GB	4 <sup>1)</sup>	8GB	4454	DRI630/8192	4
<sup>1)</sup> Memory is installed on 1 to 4 processor cards, each supporting 1 or 2 processors. Each processor card contains 8 DIMM slots. DIMMs must be added in sets of 4 identical modules. Each processor card must have an equal amount of memory installed.							



**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
Power 710	8231-E1C	128GB	8	8GB	EM08	DRI740L/8GB	2
				16GB	EM16	DRI740L/16GB	2
				32GB	EM32	DRI740L/32GB	2
The base model contains one memory riser card with four DIMM slots. IBM offers an additional riser card (#5265) that provides an additional four DIMM slots. Maximum memory capacity is 64GB with a single riser card; 128GB with two riser cards.							
Power 710	8231-E2B	64GB	8	8GB	4526	DRI750/8GB	2
				16GB	4527	DRI750/16GB	2
The base model contains one memory riser card with four DIMM slots. IBM offers an additional riser card (#5265) that provides an additional four DIMM slots. Maximum memory capacity is 32GB with a single riser card; 64GB with two riser cards.							
Power 720	8202-E4C	256GB	16	8GB	EM08	DRI740L/8GB	2
				16GB	EM16	DRI740L/16GB	2
				32GB	EM32	DRI740L/32GB	2
The base model contains one memory riser card with eight DIMM slots. IBM offers an additional riser card (#EM01) that provides an additional eight DIMM slots. Maximum memory capacity is 128GB with a single riser card; 256GB with two riser cards. A system with the 4-core processor module (#8350) does not support the 16GB or 32GB memory options.							
Power 720	8202-E4B	128GB	16	8GB	4526	DRI750/8GB	2
				16GB	4529	DRI740/16GB	2
The base model contains one memory riser card with eight DIMM slots. IBM offers an additional riser card (#5604) that provides an additional eight DIMM slots. Maximum memory capacity is 64GB with a single riser card; 128GB with two riser cards.							
Power 730	8231-E2C	256GB	16	8GB	EM08	DRI740L/8GB	2
				16GB	EM16	DRI740L/16GB	2
				32GB	EM32	DRI740L/32GB	2
The base model contains one memory riser card with four DIMM slots. IBM offers three additional riser cards (#5265) each providing an additional four DIMM slots. Maximum memory capacity is 64GB with a single riser card; 256GB with four riser cards.							
Power 730	8231-E2B	128GB	16	8GB	4526	DRI750/8GB	2
				16GB	4527	DRI750/16GB	2
The base model contains one memory riser card with four DIMM slots. IBM offers three additional riser cards (#5265), each providing an additional four DIMM slots. Maximum memory capacity is 32GB with a single riser card; 128GB with four riser cards.							
Power 740	8205-E6C	512GB	32	8GB	EM08	DRI740L/8GB	2
				16GB	EM16	DRI740L/16GB	2
				32GB	EM32	DRI740L/32GB	2
The base model contains one memory riser card with eight DIMM slots. IBM offers three additional riser cards (#EM01) each providing an additional eight DIMM slots. Maximum memory capacity is 128GB with a single riser card; 512GB with four riser cards.							
Power 740	8205-E6B	256GB	32	8GB	4526	DRI750/8GB	2
				16GB	4529	DRI740/16GB	2
The base model contains one memory riser card with eight DIMM slots. IBM offers an additional three riser cards (#5604), each providing an additional eight DIMM slots. Maximum memory capacity is 64GB with a single riser card; 256GB with four riser cards.							
Power 750 Express	8233-E8B	512GB	32	8GB	4526	DRI750/8GB	2
				16GB	4527	DRI750/16GB	2
				32GB	4528	DRI750/32GB	2
Memory is installed on 1 to 4 processor cards, each having 8 DIMM slots. Valid configurations are 2, 4, or 8 identical capacity DIMMs on each card. Keeping the memory configurations identical across all cards provides best performance.							
Power 755	8236-E8C	256GB	32	8GB	4526	DRI750/8GB	2
				16GB	4527	DRI750/16GB	2
The Power 755 comes standard with 4 processor cards, each having 8 DIMM slots. Valid configurations are 2, 4, or 8 identical capacity DIMMs on each card. Keeping the memory configurations identical across all cards provides best performance.							
<b>BLADES</b>							
BladeCenter PS700	8406	64GB	8	16GB	8209	DRI700PS/16GB	2
BladeCenter PS701	8406	128GB	16	16GB	8209	DRI700PS/16GB	2
BladeCenter PS702	8406	256GB	32	16GB	8209	DRI700PS/16GB	2
BladeCenter HS20	8843-xxx	16GB	4	4GB	39M5815, 73P4792	DRIX346S/4GB	2
				8GB	30R5145	DRIX346D/8GB	2
The server supports single- and dual-rank DIMMs. If using both types, the dual-rank DIMMs must be installed in slots 1 and 2. The 2GB and 4GB upgrades contain single-rank DIMMs; the 8GB upgrade contains dual-rank DIMMs.							
BladeCenter HS20	7981-xFU	16GB	4	4GB	39M5815, 73P4792	DRIX346S/4GB	2
				8GB	30R5145	DRIX346D/8GB	2
The server supports single- and dual-rank DIMMs. If using both types, the dual-rank DIMMs must be installed in slots 1 and 2. The 2GB and 4GB upgrades contain single-rank DIMMs; the 8GB upgrade contains dual-rank DIMMs.							
BladeCenter HS21	8853-xxx	64GB <sup>1)</sup>	8	8GB	39M5797	DRIX3650/8GB	2
				16GB	46C7577	DRIX3650Q/16GB	2
				16GB	Not Offered by IBM	DRIX3650/16GB	2
				4GB	46C7419	DRIX3650LP/4GB	2
				8GB	46C7420	DRIX3650LP/8GB	2
DIMMs within a bank must be identical.							
<sup>1)</sup> Up to 64GB is achieved by populating all four DIMM slots with 4 x 8GB DIMMs and selecting the IBM BladeCenter Memory and I/O Expansion Blade (42C1600) which adds an additional four DIMM slots. Dataram recommends updating to the latest BIOS version (V1.15 or later) for the support of Low-Power options (46C74xx, DRIX3650LP/xxx)							
BladeCenter HS21	8864-xxx	32GB <sup>1)</sup>	4	8GB	39M5797	DRIX3650/8GB	2
<sup>1)</sup> Up to 32GB is achieved by populating all four DIMM slots with 4 x 4GB DIMMs and selecting the IBM BladeCenter Memory and I/O Expansion Blade (42C1600) which adds an additional four DIMM slots.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS				
BladeCenter HS21 XM	7995-xxx	64GB	8	8GB	39M5797	DRIX3650/8GB	2				
				16GB	46C7577	DRIX3650Q/16GB	2				
				16GB	Not Offered by IBM	DRIX3650/16GB	2				
				4GB	46C7419	DRIX3650LP/4GB	2				
				8GB	46C7420	DRIX3650LP/8GB	2				
DIMMs within a bank must be identical.											
Dataram recommends updating to the latest BIOS version (V1.15 or later) for the support of Low-Power options (46C74xx, DRIX3650LP/xxx)											
BladeCenter HS22	7870	192GB	12	4GB	44T1488, 49Y1430	DRIHS22/4GB	1				
				8GB	44T1579	DRIHS22/8GB	1				
				8GB	46C7451, 49Y1431	DRIHS22-13/8GB	1				
				(1.35V)	4GB	46C0563	DRIHS22LS/4GB	1			
				(1.35V)	4GB	46C0564	DRIHS22L8/4GB	1			
				(1.35V)	4GB	46C0567	DRIHS22L/4GB	1			
				(1.35V)	8GB	46C0568	DRIHS22L3/8GB	1			
				(1.35V)	8GB	46C0569	DRIHS22L/8GB	1			
				(1.35V)	16GB	46C0599	DRIHS22L/16GB	1			
				Models with the Intel Xeon 5600 Series processor support low-power DIMMs that can operate at 1.35 V.							
BladeCenter HS22V	7871	288GB	18	4GB	44T1488, 49Y1430	DRIHS22/4GB	1				
				8GB	46C7451, 49Y1431	DRIHS22-13/8GB	1				
				(1.35V)	4GB	46C0563	DRIHS22LS/4GB	1			
				(1.35V)	4GB	46C0564	DRIHS22L8/4GB	1			
				(1.35V)	4GB	46C0567	DRIHS22L/4GB	1			
				(1.35V)	8GB	46C0568	DRIHS22L3/8GB	1			
				(1.35V)	8GB	46C0569	DRIHS22L/8GB	1			
				(1.35V)	16GB	46C0599	DRIHS22L/16GB	1			
				Models with the Intel Xeon 5600 Series processor support low-power DIMMs that can operate at 1.35 V.							
				<b>NEW</b>	<b>BladeCenter HS23E</b>	<b>8038</b>	<b>192GB</b>	<b>12</b>	<b>4GB</b>	<b>46C0563</b>	<b>DRIHS22LS/4GB</b>
<b>4GB</b>	<b>46C0564</b>	<b>DRIHS22L8/4GB</b>	<b>1</b>								
<b>8GB</b>	<b>46C0568</b>	<b>DRIHS22L3/8GB</b>	<b>1</b>								
<b>16GB</b>	<b>46C0599</b>	<b>DRIHS22L/16GB</b>	<b>1</b>								
<b>6 DIMM slots per processor</b>		<b>4GB</b>	<b>90Y3147</b>						<b>DRIHS23S/4GB</b>	<b>1</b>	
<b>DIMMs can be installed one at a time but for performance reasons, install them in sets of four (one for each of the four memory channels).</b>		<b>4GB</b>	<b>90Y3148</b>						<b>DRIHS23/4GB</b>	<b>1</b>	
		<b>8GB</b>	<b>90Y3149</b>	<b>DRIHS23/8GB</b>	<b>1</b>						
<b>NEW</b>	<b>BladeCenter HS23</b>	<b>7875</b>	<b>256GB</b>	<b>16</b>	<b>4GB</b>	<b>46C0563</b>	<b>DRIHS22LS/4GB</b>	<b>1</b>			
					<b>4GB</b>	<b>46C0564</b>	<b>DRIHS22L8/4GB</b>	<b>1</b>			
					<b>8GB</b>	<b>46C0568</b>	<b>DRIHS22L3/8GB</b>	<b>1</b>			
					<b>16GB</b>	<b>46C0599</b>	<b>DRIHS22L/16GB</b>	<b>1</b>			
					<b>8 DIMM slots per processor</b>		<b>4GB</b>	<b>90Y3147</b>	<b>DRIHS23S/4GB</b>	<b>1</b>	
					<b>DIMMs can be installed one at a time but for performance reasons, install them in sets of four (one for each of the four memory channels).</b>		<b>4GB</b>	<b>90Y3148</b>	<b>DRIHS23/4GB</b>	<b>1</b>	
		<b>8GB</b>	<b>90Y3149</b>	<b>DRIHS23/8GB</b>	<b>1</b>						
BladeCenter HX5	7872	128GB	16	4GB	44T1596	DRIHX5/4GB	1				
MAX5 V1 Exp Unit	46M6973	192GB	24	8GB	49Y1555	DRIHX5/8GB	1				
				8GB	44C7499	DRIHX5/8GB	1				
Memory must be installed in pairs of identical DIMMs											
BladeCenter HX5	7873	256GB	16	4GB	46C0564	DRIHS22L8/4GB	1				
MAX5 V2 Exp Unit	88Y6128	384GB	24	8GB	46C0570	DRIHX5QL/8GB	1				
				16GB	46C0599	DRIHS22L/16GB	1				
Memory must be installed in pairs of identical DIMMs											
BladeCenter JS12	7998-60X	64GB	8	16GB	8245	DRIJS12/16GB	2				
When using 8GB DIMMs, all of the DIMMs must be 8GB											
BladeCenter JS21	7988-xxx	16GB	4	8GB	8388, 41Y2723	DRIJS21-5/8GB	2				
BladeCenter JS21	8844-xxx	16GB	4	8GB <sup>1)</sup>	8388, 41Y2723	DRIJS21-5/8GB	2				
				4GB <sup>2)</sup>	39M5815, 73P4792	DRIX346S/4GB	2				
<sup>1)</sup> DDR2-533 <sup>2)</sup> DDR2-400											
BladeCenter JS22	7998-61X	32GB	4	8GB	8234	DRIJS22/8GB	2				
BladeCenter JS23	7778-23X	64GB	8	16GB	8245	DRIJS12/16GB	2				
BladeCenter JS43	7778-23X	128GB	16	16GB	8245	DRIJS12/16GB	2				
BladeCenter LS21	7971-xxx	64GB	8	16GB	Not Offered by IBM	DRILS42/16GB	2				
BladeCenter LS41	7972-xxx	128GB <sup>1)</sup>	16	16GB	Not Offered by IBM	DRILS42/16GB	2				
								<sup>1)</sup> 16 slots, 128GB max with the optional multi-processor expansion (MPE) unit; otherwise 8 slots, 64GB max.			
BladeCenter LS22	7901	64GB	8	16GB	44T1547	DRILS42/16GB	2				
BladeCenter LS42	7902	128GB <sup>1)</sup>	16	16GB	44T1547	DRILS42/16GB	2				
								<sup>1)</sup> 16 slots, 128GB max with the optional multi-processor expansion (MPE) unit; otherwise 8 slots, 64GB max.			
<b>PURESYSTEMS</b>											
<b>NEW</b>	<b>Flex System x220 Compute Node</b>	<b>192GB</b>	<b>12</b>	<b>4GB</b>	<b>49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>				
				<b>4GB</b>	<b>49Y1407</b>	<b>DRIX1333R2L8/4GB</b>	<b>1</b>				
				<b>6 DIMM slots per processor</b>		<b>8GB</b>	<b>90Y3109</b>	<b>DRIX1600R/8GB</b>	<b>1</b>		
				<b>Maximum memory capacity determined by type of memory:</b>		<b>8GB</b>	<b>49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>		
				<b>48GB = 12 x 4GB UDIMMs</b>		<b>16GB</b>	<b>49Y1400</b>	<b>DRIX1066RQL/16GB</b>	<b>1</b>		
				<b>192GB = 12 x 16GB RDIMMs</b>							
<b>Mixing 1.5V &amp; 1.35V DIMMs is supported, however all DIMMs operate at 1.5 V</b>											

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>NEW</b>	<b>Flex System x240 Compute Node</b>	<b>768GB</b>	<b>24</b>	<b>4GB</b>	<b>90Y3178</b>	<b>DRIX1600R/4GB</b>	<b>1</b>
	<b>12 DIMM slots per processor</b>			<b>4GB</b>	<b>49Y1559</b>	<b>DRIX1600RS/4GB</b>	<b>1</b>
	<b>Maximum memory capacity determined by type of memory:</b>			<b>4GB</b>	<b>49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>
	<b>768GB = 24 x 32GB 4 Rank LRDIMMs</b>			<b>4GB</b>	<b>49Y1407</b>	<b>DRIX1333R2L8/4GB</b>	<b>1</b>
	<b>384GB = 24 x 16GB 2 Rank RDIMMs</b>			<b>8GB</b>	<b>90Y3109</b>	<b>DRIX1600R/8GB</b>	<b>1</b>
				<b>8GB</b>	<b>49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>49Y1400</b>	<b>DRIX1066RQL/16GB</b>	<b>1</b>
				<b>16GB</b>	<b>00D4968</b>	<b>DRIX1600R/16GB</b>	<b>1</b>
				<b>16GB</b>	<b>49Y1563</b>	<b>DRIX1333RL/16GB</b>	<b>1</b>
	<b>Mixing 1.5V &amp; 1.35V DIMMs is supported, however all DIMMs operate at 1.5 V</b>			<b>32GB</b>	<b>90Y3105</b>	<b>DRIX1333LRQ/32GB</b>	<b>1</b>
<b>SYSTEM X (XSERIES) SERVERS</b>							
System x	6380, 7321, 7323	192GB	16	4GB	44T1483	DRIX1333R/4GB	1
iDataPlex dx360 M2				8GB	46C7449	DRIX1333R/8GB	1
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1
System x	6385, 6386, 6391	192GB <sup>1)</sup>	16	4GB	49Y1435, 44T1483	DRIX1333R/4GB	1
iDataPlex dx360 M3				8GB	49Y1436, 46C7449	DRIX1333R/8GB	1
				16GB	46C7483	DRIX1066RQ/16GB	1
<sup>1)</sup> 192GB (12x16GB)				(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
				(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
				(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
<b>NEW</b>	<b>System x</b>	<b>7912, 7913</b>	<b>256GB</b>	<b>16</b>	<b>4GB 90Y3178</b>	<b>DRIX1600R/4GB</b>	<b>1</b>
	<b>iDataPlex dx360 M4</b>				<b>4GB 49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>
					<b>8GB 49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>
	<b>8 DIMM slots per processor</b>				<b>16GB Not Offered by IBM</b>	<b>DRIX1600R/16GB</b>	<b>1</b>
System x3100 M4	2582	32GB	4	4GB	44T1571	DRIX1333U/4GB	1
				8GB	90Y3165	DRIX1333U/8GB	1
System x3200 M3	7327, 7328	32GB	6	4GB	44T1599	DRIX1333R2/4GB	1
				8GB	46C7482	DRIX1066RQ/8GB	1
				4GB	44T1571	DRIX1333U/4GB	1
The system supports either Unbuffered or Registered ECC memory. Do not mix the two types. Only 4 slots are available for use with Unbuffered DIMMs. Only 4 slots are available for use with Registered Quad-Rank DIMMs.							
System x3250 M3	4251, 4252	32GB	6	4GB	44T1599	DRIX1333R2/4GB	1
				8GB	46C7482	DRIX1066RQ/8GB	1
				4GB	44T1571	DRIX1333U/4GB	1
The system supports either Unbuffered or Registered ECC memory. Do not mix the two types. Only 4 slots are available for use with Unbuffered DIMMs. Only 4 slots are available for use with Registered Quad-Rank DIMMs.							
System x3250 M4	2583	32GB	4	4GB	44T1571	DRIX1333U/4GB	1
				8GB	90Y3165	DRIX1333U/8GB	1
System x3400	7973-xxx, 7974-xxx 7975-xxx, 7976-xxx	32GB	8	4GB	46C7419	DRIX3650LP/4GB	2
				8GB	39M5797	DRIX3650/8GB	2
DIMMs within a bank must be identical.				8GB	46C7420	DRIX3650LP/8GB	2
IBM's 46C74xx and Dataram's DRIX3650LP/xxx are low-power options and may require a BIOS update.							
System x3400 M2	7836, 7837	192GB	12	4GB	44T1483	DRIX1333R/4GB	1
				8GB	46C7449	DRIX1333R/8GB	1
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1
System x3400 M3	7378, 7379	192GB <sup>1)</sup>	16	4GB	49Y1435, 44T1483	DRIX1333R/4GB	1
				8GB	49Y1436, 46C7449	DRIX1333R/8GB	1
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1
<sup>1)</sup> 48GB (12x4GB) maximum using Unbuffered memory; 192GB (12x16GB) using Registered memory.				(1.35V)	4GB 49Y1407	DRIX1333R2L8/4GB	1
				(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
				(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
				(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.							
System x3450	7948-xBX, x2X, 54X, 56X, 58X	64GB	16	8GB	39M7597	DRIX3650/8GB	2
System x3455	7984-xxx, 7986-xxx, 7940-xx	48GB <sup>1)</sup>	12	8GB	41Y2768, 46C7538	DRIX3755/8GB	2
<sup>1)</sup> Dual-processor models support up to 48GB; single processor models support up to 24GB							
System x3500	7977-xxx	48GB	12	4GB	46C7419	DRIX3650LP/4GB	2
				8GB	39M5797	DRIX3650/8GB	2
DIMMs within a bank must be identical.				8GB	46C7420	DRIX3650LP/8GB	2
IBM's 46C74xx and Dataram's DRIX3650LP/xxx are low-power options and may require a BIOS update.							
System x3500 M2	7839	192GB	12	4GB	44T1483	DRIX1333R/4GB	1
				8GB	46C7449	DRIX1333R/8GB	1
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS		
System x3500 M3	7380	192GB <sup>1)</sup>	16	4GB	49Y1435, 44T1483	DRIX1333R/4GB	1		
				8GB	49Y1436, 46C7449	DRIX1333R/8GB	1		
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1		
		<sup>1)</sup> 48GB (12x4GB) maximum using Unbuffered memory; 192GB (12x16GB) using Registered memory.				(1.35V)	4GB 49Y1407	DRIX1333R2L8/4GB	1
						(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
						(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
						(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
		(1.35V)	16GB 49Y1400	DRIX1066RQL/16GB	1				

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.

<b>NEW</b>	<b>System x3500 M4</b>	<b>7383</b>	<b>768GB</b>	<b>24</b>	<b>4GB 90Y3178</b>	<b>DRIX1600R/4GB</b>	<b>1</b>
	<b>12 DIMM slots per processor</b>				<b>4GB 49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>
	<b>Maximum memory capacity determined by type of memory:</b>				<b>4GB 49Y1407</b>	<b>DRIX1333R2L8/4GB</b>	<b>1</b>
	<b>768GB = 24 x 32GB 4 Rank LRDIMMs</b>				<b>8GB 49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>
	<b>384GB = 24 x 16GB 2 Rank RDIMMs</b>				<b>16GB Not Offered by IBM</b>	<b>DRIX1600R/16GB</b>	<b>1</b>
					<b>16GB 49Y1563</b>	<b>DRIX1333RL/16GB</b>	<b>1</b>
					<b>16GB 49Y1400</b>	<b>DRIX1066RQL/16GB</b>	<b>1</b>
				<b>32GB 90Y3105</b>	<b>DRIX1333LRQ/32GB</b>	<b>1</b>	

<b>NEW</b>	<b>System x3530 M4</b>	<b>7160</b>	<b>192GB</b>	<b>12</b>	<b>4GB 49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>
	<b>6 DIMM slots per processor</b>				<b>4GB 49Y1407</b>	<b>DRIX1333R2L8/4GB</b>	<b>1</b>
	<b>Maximum memory capacity determined by type of memory:</b>				<b>8GB 49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>
	<b>48GB = 12 x 4GB 2 Rank UDIMMs</b>				<b>8GB 90Y3109</b>	<b>DRIX1600R/8GB</b>	<b>1</b>
	<b>192GB = 12 x 16GB 2 Rank RDIMMs</b>				<b>16GB 49Y1563</b>	<b>DRIX1333RL/16GB</b>	<b>1</b>
					<b>16GB Not Offered by IBM</b>	<b>DRIX1600R/16GB</b>	<b>1</b>

Mixing 1.5V & 1.35V DIMMs is supported, however all DIMMs operate at 1.5 V

System x3550	7978-xxx	32GB	8	4GB	46C7419	DRIX3650LP/4GB	2
				8GB	39M5797	DRIX3650/8GB	2
				8GB	46C7420	DRIX3650LP/8GB	2

DIMMs within a bank must be identical.

IBM's 46C74xx and Dataram's DRIX3650LP/xxx are low-power options and may require a BIOS update.

System x3550 M2	7946	192GB	16	4GB	44T1483	DRIX1333R/4GB	1
				8GB	46C7449	DRIX1333R/8GB	1
				16GB	Not Offered by IBM	DRIX1066RQ/16GB	1

System x3550 M3	7944	288GB	18	4GB	49Y1435, 44T1483	DRIX1333R/4GB	1
				8GB	49Y1436, 46C7449	DRIX1333R/8GB	1
				16GB	46C7483	DRIX1066RQ/16GB	1
				(1.35V)	4GB 49Y1406	DRIX1333RSL/4GB	1
				(1.35V)	4GB 49Y1407	DRIX1333R2L8/4GB	1
				(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
				(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
				(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
				(1.35V)	16GB 49Y1400	DRIX1066RQL/16GB	1
				(1.35V)	16GB 49Y1563	DRIX1333RL/16GB	1

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.

<b>NEW</b>	<b>System x3550 M4</b>	<b>7914</b>	<b>768GB</b>	<b>24</b>	<b>4GB 90Y3178</b>	<b>DRIX1600R/4GB</b>	<b>1</b>
	<b>12 DIMM slots per processor</b>				<b>4GB 49Y1559</b>	<b>DRIX1600RS/4GB</b>	<b>1</b>
	<b>Maximum memory capacity determined by type of memory:</b>				<b>4GB 49Y1406</b>	<b>DRIX1333RSL/4GB</b>	<b>1</b>
	<b>768GB = 24 x 32GB 4 Rank LRDIMMs</b>				<b>4GB 49Y1407</b>	<b>DRIX1333R2L8/4GB</b>	<b>1</b>
	<b>384GB = 24 x 16GB 2 Rank RDIMMs</b>				<b>8GB 90Y3109</b>	<b>DRIX1600R/8GB</b>	<b>1</b>
					<b>8GB 49Y1397</b>	<b>DRIX1333RL/8GB</b>	<b>1</b>
					<b>8GB 49Y1399</b>	<b>DRIX1066RQL/8GB</b>	<b>1</b>
					<b>16GB Not Offered by IBM</b>	<b>DRIX1600R/16GB</b>	<b>1</b>
					<b>16GB 49Y1563</b>	<b>DRIX1333RL/16GB</b>	<b>1</b>
					<b>32GB 90Y3105</b>	<b>DRIX1333LRQ/32GB</b>	<b>1</b>

Mixing 1.5V & 1.35V DIMMs is supported, however all DIMMs operate at 1.5 V

System x3620 M3	7376	192GB	12	4GB	49Y1435	DRIX1333R/4GB	1
				8GB	49Y1436	DRIX1333R/8GB	1
				(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
				(1.35V)	4GB 49Y1406	DRIX1333RSL/4GB	1
				(1.35V)	4GB 49Y1407	DRIX1333R2L8/4GB	1
				(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
				(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
				(1.35V)	16GB 49Y1400	DRIX1066RQL/16GB	1

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.

System x3630 M3	7377	192GB	12	4GB	49Y1435	DRIX1333R/4GB	1
				8GB	49Y1436	DRIX1333R/8GB	1
				(1.35V)	4GB 49Y1394	DRIX1333RL/4GB	1
				(1.35V)	4GB 49Y1406	DRIX1333RSL/4GB	1
				(1.35V)	8GB 49Y1397	DRIX1333RL/8GB	1
				(1.35V)	8GB 49Y1398	DRIX1066RL/8GB	1
				(1.35V)	16GB 49Y1400	DRIX1066RQL/16GB	1

Low-voltage DIMMs (1.35V) will only operate at 1.35V if used in models with Intel Xeon 5600 Series CPUs and not mixed with standard-voltage DIMMs (1.5V). Consult your owners manual or Dataram Technical Support for assistance.



**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS	
System x3800	8866-xxx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (41Y5000), each containing four DIMM slots. One or two cards are standard.								
System x3850	8863-xxx, 8864-xxx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (13M7409 or 41Y5000), each containing four DIMM slots. One or two cards are standard.								
System x3850 M2	7141-xxx, 7233-xxx	256GB	32 <sup>1)</sup>	8GB	41Y2768, 46C7538	DRIX3755/8GB	2	
				16GB	43V7356	DRIX3755/16GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (44E4252), each containing eight DIMM slots. One or two cards are standard.								
System x3850/3950 X5	7143	2TB	64 <sup>1)</sup>	8GB	46C7482	DRIX1066RQ/8GB	1	
MAX5 V2 Exp Unit	88Y6529	1TB	32	16GB	46C7483	DRIX1066RQ/16GB	1	
<sup>1)</sup> There are 16 DIMM slots on the system board. An optional IBM Memory Expansion Card (60Y0323) can be installed for an additional 16 slots.				(1.35V)	4GB	49Y1407	DRIX1333R2L8/4GB	1
				(1.35V)	8GB	49Y1399	DRIX1066RQL/8GB	1
				(1.35V)	16GB	49Y1400	DRIX1066RQL/16GB	1
				(1.35V)	32GB	90Y3101, 90Y3206	DRIX1066RQL/32GB	1
Most models support an optional IBM MAX5 Expansion Module (88Y6529) providing an additional 32 DIMM slots (96 slots, 3TB total).								
System x3850 X5,	7145, 7146	1TB	64 <sup>1)</sup>	4GB	44T1599	DRIX1333R2/4GB	1	
System x3950 X5				8GB	46C7482	DRIX1066RQ/8GB	1	
				16GB	46C7483	DRIX1066RQ/16GB	1	
				(1.35V)	4GB	49Y1407	DRIX1333R2L8/4GB	1
<sup>1)</sup> The servers support 1 to 8 IBM Memory Expansion Cards (46M0071), each containing 8 DIMM slots. Attaching an optional IBM MAX5 Expansion Module provides another 32 DIMM slots and a maximum memory capacity of 1.5TB (96 x 16GB DIMMs).								
System x3950	8872-xxx, 8874-xxx, 8878-xx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (13M7409 or 41Y5000), each containing four DIMM slots. Two Cards are standard.								
System x3950 M2	7141-xxx, 7233-xxx	256GB	32 <sup>1)</sup>	8GB	41Y2768, 46C7538	DRIX3755/8GB	2	
				16GB	43V7356	DRIX3755/16GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (44E4252), each containing eight DIMM slots. One or two cards are standard.								
xSeries 226	8648-xxx, 8848-xxx	16GB	6	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
The server supports single- and dual-rank DIMMs. Dual-rank DIMMs must be installed in slots 1 and 2 and are not supported in slots 3-6. 16GB must be configured as 2 x 4GB and 4 x 2GB DIMMs.								
xSeries 236	8841-xxx	16GB	8	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
The server supports single- and dual-rank DIMMs. If using both types, the dual-rank DIMMs must be installed first and are not supported in slots 5-8. No more than the equivalent of eight ranks is permitted. All upgrades listed are single-rank.								
xSeries 260	8865-xxx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (13M7409), each containing four DIMM slots. One Card is standard.								
xSeries 336	8837-xxx	16GB	8	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
The server supports single- and dual-rank DIMMs. If using both types, the dual-rank DIMMs must be installed first and are not supported in slots 5-8. No more than the equivalent of eight ranks is permitted. All upgrades listed are single-rank.								
xSeries 346	8840-xxx	16GB	8	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
The server supports single- and dual-rank DIMMs. If using both types, the dual-rank DIMMs must be installed first and are not supported in slots 5-8. No more than the equivalent of eight ranks is permitted. All upgrades listed are single-rank.								
xSeries 366	8863-xxx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (13M7409), each containing four DIMM slots. One Card is standard.								
xSeries 460	8872-xxx, 8874-xxx	64GB	16 <sup>1)</sup>	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
				8GB	30R5145	DRIX346D/8GB	2	
<sup>1)</sup> Memory is installed on two to four IBM Memory Cards (13M7409), each containing four DIMM slots. Two Cards are standard.								
<b>INTELLISTATION PRO AND POWER WORKSTATIONS</b>								
IntelliStation Z Pro	9228-xxx	32GB	8	8GB	39M5797	DRIX3650/8GB	2	
IntelliStation Z Pro	6223-xxx	16GB <sup>1)</sup>	6	4GB	39M5815, 73P4792	DRIX346S/4GB	2	
<sup>1)</sup> Except for a single DIMM in the 1st slot, odd numbered DIMMs are not supported. DIMMs must be installed in matched pairs. If mixing single- and dual-rank DIMM pairs, the dual-rank DIMMs must be installed in slots 1 and 2. No more than the equivalent of eight ranks are supported.								
IntelliStation POWER 275	9114-275	16GB	8	8GB	4449	DR1615/8192	4	
IntelliStation POWER 285 Express	9111-285	32GB	8	8GB	1934	DR1550D2/8GB	2 <sup>1)</sup>	
<sup>1)</sup> DIMMs must be installed in matched groups of fours (quads) for best performance.								

DATARAM MEMORY PRODUCTS

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
<b>ORACLE / SUN</b>		<a href="http://www.dataram.com">For the latest product news or to register for E-Flash go to www.dataram.com</a>					
<b>X64 SERVERS</b>							
<p><b>DDR3 Note #1:</b> For Sun systems with 12 DIMM slots: Systems feature 1 or 2 processors each controlling 3 memory "channels" of 2 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration: 1 DIMM per channel enables memory speed of 1333MHz; 2 DIMMs per channel reduces speed to 1066MHz; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel.</p> <p><b>DDR3 Note #2:</b> For Sun systems with 18 DIMM slots: Systems feature 1 or 2 processors each controlling 3 memory "channels" of 3 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration. For ILOM software version release 2 or later: 1 or 2 single- or dual-rank 2GB or 4GB DIMMs per channel enables memory speed of 1333MHz ; 2 8GB DIMMs per channel enables speed of 1066MHz; 3 DIMMs per channel reduces speed to 800MHz for single or dual-rank DIMMs; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel; 3 quad-rank DIMMs are not supported.</p>							
Sun Fire X2100 M2		8GB	4	4GB	X5279A-Z	DRSX2100M2/4GB	2
Sun Fire X2200 M2		128GB	16 <sup>1)</sup>	4GB	X5288A-C	DRSX2200M2S/4GB	2
				8GB	X4063A-Z	DRSX2200M2/8GB	2
				16GB	Not Offered by Sun	DRSX2200M2/16GB	2
<sup>1)</sup> 8 DIMM slots per processor. When more than 4 DIMMs are configured per CPU, the memory is clocked down to 533MHz.							
Sun Fire X2250		64GB	8	8GB	X6382A	DRSX4450/8GB	2
				16GB	Not Offered by Sun - 2R	DRSX4450/16GB	2
Sun Fire X2270		96GB	12	4GB	X8338A	DRSX2270-13/4GB	1
				8GB	X8336A	DRSX2270-10/8GB	1
				8GB	Not Offered by Sun	DRSX2270-13/8GB	1
See DDR3 Note #1 at top of Sun x64 Servers section							
Sun Fire X2270 M2		192GB	12	4GB	X8360A	DRSX2270-13/4GB	1
				8GB	X8359A	DRSX2270-10/8GB	1
				8GB	Not Offered by Sun	DRSX2270-13/8GB	1
				16GB	Not Offered by Sun	DRSX2270Q/16GB	1
				(1.35V)	4GB X8362A	DRSX2270L/4GB	1
				(1.35V)	8GB X8361A	DRSX2270L/8GB	1
See DDR3 Note #1 at top of Sun x64 Servers section							
Sun Fire X4100		32GB <sup>1)</sup>	8	4GB	X8023A, X8023A-Z	DRSX4100/4GB	2
				8GB	Not Offered by Sun	DRSX4102/8GB	2
<sup>1)</sup> 16GB maximum for single processor models. 4 DIMM slots per processor.							
Sun Fire X4100 M2		64GB <sup>1)</sup>	8	4GB	X4226A-C	DRSX4200M2S/4GB	2
				8GB	X4227A-Z, X4233A	DRSX4200M2/8GB	2
				16GB	Not Offered by Sun	DRSX4200M2D/16GB	2
<sup>1)</sup> 32GB maximum for single processor models. 4 DIMM slots per processor.							
Sun Fire X4140		128GB <sup>1)</sup>	16	8GB	X6322A	DRSX4440/8GB	2
				16GB	X4287A	DRSX4440/16GB	2
<sup>1)</sup> 64GB maximum for single processor models. 8 DIMM slots per processor.							
Sun Fire X4150		64GB	16	8GB	X6382A	DRSX4450/8GB	2
Sun Fire X4170, X4270, X4275		192GB	18	2GB	X5869A	DRSX1333R/2GB	1
				4GB	X5867A	DRSX1066R/4GB	1
				4GB	X5870A	DRSX1333R/4GB	1
				8GB	X5868A	DRSX1066R/8GB	1
				8GB	Not Offered by Sun	DRSX1333R/8GB	1
				16GB	Not Offered by Sun	DRSX1066RQ/16GB	1
See DDR3 Note #2 at top of Sun x64 Servers section							
Sun Fire X4170 M2, X4270 M2		384GB	18	4GB	X4850A, X5870A	DRSX1333R/4GB	1
				8GB	X4851A, X5868A	DRSX1066R/8GB	1
				(1.35V)	4GB X4910A	DRSX1333RL/4GB	1
				(1.35V)	8GB X4911A	DRSX1333RL/8GB	1
				(1.35V)	8GB 7100155	DRSX4470M2L/8GB	2
				(1.35V)	16GB 7100160	DRSX4470M2L/16GB	2
				(1.35V)	16GB 7100133	DRSX4800M2L/16GB	2
				(1.35V)	32GB 7100164	DRSX4470M2L/32GB	2
				(1.35V)	32GB 7100134	DRSX4800M2L/32GB	2
See DDR3 Note #2 at top of Sun Blade Servers section							
<b>N</b>	<b>Sun Fire X4170 M3</b>	<b>512GB</b>	<b>16</b>	<b>8GB</b>	<b>7100790</b>	<b>DRSX4170M3/8GB</b>	<b>1</b>
<b>E</b>				<b>16GB</b>	<b>7100794</b>	<b>DRSX4170M3/16GB</b>	<b>1</b>
<b>W</b>	<b>1 or 2 processors each controlling 8 DIMM slots</b>			<b>32GB</b>	<b>7100792</b>	<b>DRSX4170M3/32GB</b>	<b>1</b>
<b>N</b>	<b>Sun Fire X4270 M3</b>	<b>256GB</b>	<b>16</b>	<b>8GB</b>	<b>7100790</b>	<b>DRSX4170M3/8GB</b>	<b>1</b>
<b>E</b>				<b>16GB</b>	<b>7100794</b>	<b>DRSX4170M3/16GB</b>	<b>1</b>
<b>W</b>	<b>1 or 2 processors each controlling 8 DIMM slots</b>						
Sun Fire X4200		32GB <sup>1)</sup>	8	4GB	X8023A, X8023A-Z	DRSX4100/4GB	2
				8GB	Not Offered by Sun	DRSX4102/8GB	2
<sup>1)</sup> 16GB maximum for single processor models. 4 DIMM slots per processor.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
Sun Fire X4200 M2		64GB <sup>1)</sup>	8	4GB	X4226A-C	DRSX4200M2S/4GB	2
				8GB	X4227A-Z, X4233A	DRSX4200M2/8GB	2
				16GB	Not Offered by Sun	DRSX4200M2D/16GB	2
<sup>1)</sup> 32GB maximum for single processor models. 4 DIMM slots per processor.							
Sun Fire X4240		128GB <sup>1)</sup>	16	8GB	X6322A	DRSX4440/8GB	2
				16GB	X4287A	DRSX4440/16GB	2
<sup>1)</sup> 64GB maximum for single processor models. 8 DIMM slots per processor.							
Sun Fire X4250		64GB	16	8GB	X6382A	DRSX4450/8GB	2
Sun Fire X4440		256GB <sup>1)</sup>	32	8GB	X6322A	DRSX4440/8GB	2
				16GB	X4287A	DRSX4440/16GB	2
<sup>1)</sup> 64GB maximum for single processor models. 8 DIMM slots per processor.							
Sun Fire X4450		256GB	32	8GB	X6382A	DRSX4450/8GB	2
Sun Fire X4470		1TB	64	8GB	X8504A	DRSX4470/8GB	2
				16GB	X8505A	DRSX4470/16GB	2
				32GB	Not Offered by Oracle	DRSX4470/32GB	2
The system supports 1 to 8 Memory Riser Cards (2 per CPU), each having 8 DIMM slots.							
Sun Fire X4470 M2		1TB	64	8GB	7100155	DRSX4470M2L/8GB	2
				16GB	7100160	DRSX4470M2L/16GB	2
				32GB	7100164	DRSX4470M2L/32GB	2
Two Memory Riser Cards per processor (up to 8 total), each having 8 DIMM slots.							
Sun Fire X4540		64GB	16 <sup>1)</sup>	16GB	X8356A	DRSX4600M2/16GB	2
<sup>1)</sup> 8 DIMM slots per processor.							
Sun Fire X4600 M2	4-DIMM CPU Card	128GB	32 <sup>1)</sup>	4GB	X8123A-C-Z	DRSX4600M2S/4GB	2
				8GB	X8124A-Z, X8098A	DRSX4600M2/8GB	2
Sun Fire X4600 M2	8-DIMM CPU Card	512GB	64 <sup>2)</sup>	4GB	X8123A-C-Z	DRSX4600M2S/4GB	2
				8GB	X8124A-Z, X8098A	DRSX4600M2/8GB	2
				16GB	X8356A	DRSX4600M2/16GB	2
<sup>1)</sup> The system supports 1 to 8 CPU/Memory Cards each having 4 DIMM slots.							
<sup>2)</sup> The system supports 1 to 8 CPU/Memory Cards each having 8 DIMM slots. DIMMs must be installed in matched sets of four.							
Sun Fire X4640		512GB	64 <sup>1)</sup>	8GB	X8124A-Z, X8098A	DRSX4600M2/8GB	2
				16GB	X8356A	DRSX4600M2/16GB	2
<sup>1)</sup> The system supports 1 to 8 CPU/Memory Cards each having 8 DIMM slots.							
Sun Fire X4800		1TB	128	8GB	X8461A	DRSX4800/8GB	2
				16GB	X8462A	DRSX4800/16GB	2
The system supports 1 to 4 CPU/Memory Cards, each having 32 DIMM slots.							
Sun Fire X4800 M2		2TB	128	8GB	7100131	DRSX4800M2L/8GB	2
				16GB	7100133	DRSX4800M2L/16GB	2
				32GB	7100134	DRSX4800M2L/32GB	2
The system supports 1 to 4 CPU/Memory Cards, each having 32 DIMM slots.							
Sun Fire V20z	Super FRU Chassis PN:	32GB	8 <sup>1)</sup>	8GB	Not Offered by Sun	DRSV20Z/8GB	2
	380-0979, 380-1168, 380-1194			8GB	Not Offered by Sun	DRSV20Z3/8GB	2
	Super FRU Chassis PN:	32GB <sup>2)</sup>	8 <sup>1)</sup>	4GB	X9297A	DRSV40Z4/4GB	2
	380-1194						
<sup>1)</sup> The Sun Fire V20z contains eight DIMM slots (four per processor). Memory must be installed in matched pairs.							
<sup>2)</sup> Requires NSV version 2.3.0.11 or higher.							
Be sure to check the Chassis PN to determine which type of memory is supported.							
The Sun X9297A & Dataram DRSV40Z4/4GB are DDR400; the Dataram DRSV20Z/8GB is DDR266; DRSV20Z3/8GB is DDR333.							
Sun Fire V40z	Super FRU Chassis PN:	56GB	16 <sup>1)</sup>	8GB	Not Offered by Sun	DRSV20Z/8GB	2
	380-1010			8GB	Not Offered by Sun	DRSV20Z3/8GB	2
	Super FRU Chassis PN:	64GB <sup>2)</sup>	16 <sup>1)</sup>	4GB	X9297A	DRSV40Z4/4GB	2
	380-1206			8GB	Not Offered by Sun	DRSV20Z/8GB	2
					8GB	Not Offered by Sun	DRSV20Z3/8GB
<sup>1)</sup> The Sun Fire V40z contains sixteen DIMM slots (four per processor). Memory must be installed in matched pairs.							
<sup>2)</sup> Requires NSV version 2.3.0.11 or higher.							
Be sure to check the Chassis PN to determine which type of memory is supported.							
The Sun X9297A & Dataram DRSV40Z4/4GB are DDR400; the Dataram DRSV20Z/8GB is DDR266; DRSV20Z3/8GB is DDR333.							

**ENTRY LEVEL SPARC SERVERS**

Sun Fire V125		8GB	4	2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2
Sun Fire V210		16GB <sup>1)</sup>	8	2GB <sup>2)</sup>	X7704A-4, X7704A, X7604A...	DRS240/2048	2
				4GB <sup>2)</sup>	X7711A-4	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2
<sup>1)</sup> 8GB with single processor models. 4 DIMM slots per processor.							
<sup>2)</sup> The use of the 2GB or 4GB upgrades requires Sun Fan Upgrade Kit (X7418A) in older systems.							
Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).							
Sun Fire V215		16GB	8 <sup>1)</sup>	2GB	X8704A	DRSU45/2GB	2
				4GB	X8711A	DRSU45/4GB	2
<sup>1)</sup> 4 DIMM slots per processor							



**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS		
Sun Fire V240		32GB <sup>1)</sup>	8	2GB	X7704A-4, X7704A, X7604A...	DRS240/2048	2		
				4GB	X7711A-4	DRS240/4096	2		
		<sup>1)</sup> 16GB with single processor models. 4 DIMM slots per processor. Dataram recommends Open Boot Prom (OPB) 2.16v1 or later for the use of DRS243/xxx (DDR333/PC2700). OPB 4.22.23 or later is required for the use of the 8GB upgrade (DRSU45/8GB)	2GB	X7704A-4	DRS243/2GB	2			
			4GB	X7711A-4	DRS243/4GB	2			
		8GB	Not Offered by Sun	DRSU45/8GB	2				
Sun Fire V245		32GB	8 <sup>1)</sup>	2GB	X8704A	DRSU45/2GB	2		
				4GB	X8711A	DRSU45/4GB	2		
		<sup>1)</sup> 4 DIMM slots per processor	8GB	Not Offered by Sun	DRSU45/8GB	2			
			OPB 4.22.23 or later is required for the use of the 8GB upgrade (DRSU45/8GB)						
Sun Fire V250	1.06GHz, 1.28GHz	16GB	8 <sup>1)</sup>	2GB	X7704A-4, X7704A, X7604A...	DRS240/2048	2		
				4GB	X7711A-4	DRS240/4096	2		
		<sup>1)</sup> Four dedicated DIMM sockets per processor, arranged as two banks of two. In a single processor configuration all four DIMMs should be identical to allow for interleaving between banks and best performance. In a dual processor configuration all eight DIMMs should be identical. Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).	2GB	X7704A-4	DRS243/2GB	2			
			4GB	Not Offered by Sun	DRS243/4GB	2			
Sun Fire V440	1.06GHz, 1.28GHz	64GB	16 <sup>1)</sup>	2GB	X7704A-4, X7704A, X7604A...	DRS240/2048	2		
				4GB	X7711A-4	DRS240/4096	2		
		<sup>1)</sup> Memory is installed on one to four CPU/Memory Cards, each containing one processor and four DIMM slots. Dataram recommends Open Boot Prom (OBP) 4.16v.1 or later for the use of the DRS243/xxx (DDR333/PC2700). OPB 4.22.23 or later is required for the use of the 8GB upgrade (DRSU45/8GB)	2GB	X7704A-4	DRS243/2GB	2			
			4GB	X7711A-4	DRS243/4GB	2			
		8GB	Not Offered by Sun	DRSU45/8GB	2				
Sun Fire V445		64GB	16 <sup>1)</sup>	2GB	X8704A	DRSU45/2GB	2		
				4GB	X8711A	DRSU45/4GB	2		
		<sup>1)</sup> 4 DIMM slots per processor	8GB	Not Offered by Sun	DRSU45/8GB	2			
			OPB 4.22.23 or later is required for the use of the 8GB upgrade (DRSU45/8GB)						
<b>COOLTHREADS SERVERS</b>									
Sun Fire T1000		32GB	8	8GB	SEKX2D1Z, X7803A	DRST2000/8GB	2 <sup>1)</sup>		
								<sup>1)</sup> Memory must be installed in groups of 4 matched DIMMs. Valid configurations are 4 or 8 matched DIMMs.	
Sun Fire T2000		64GB	16	8GB	SEKX2D1Z, X7803A	DRST2000/8GB	2 <sup>1)</sup>		
								<sup>1)</sup> Memory must be installed in groups of 8 matched DIMMs. Valid configurations are 8 or 16 matched DIMMs.	
<b>MIDRANGE SERVERS</b>									
Sun Fire V480		64GB <sup>1)</sup>	2 <sup>2)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	Not Offered by Sun	DRS880/8192	4		
		<sup>1)</sup> Requires OBP 4.13.2 and POST 4.13.0 versions or greater for configurations exceeding 24GB per CPU/Memory Card.	<sup>2)</sup> One or two CPU/Memory Cards can be installed, each supporting two CPUs and 16 DIMM slots (4 banks of 4).						
Sun Fire V490		64GB	2 <sup>1)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	Not Offered by Sun	DRS880/8192	4		
		<sup>1)</sup> One or two CPU/Memory Cards can be installed, each supporting two CPUs and 16 DIMM slots (4 banks of 4).							
Sun Fire V880z		96GB <sup>1)</sup>	3 <sup>2)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	Not Offered by Sun	DRS880/8192	4		
		<sup>1)</sup> Requires OBP 4.13.2 and POST 4.13.0 versions or greater for configurations exceeding 24GB per CPU/Memory Card.							
		<sup>2)</sup> One to three CPU/Memory Cards can be installed, each supporting two CPUs and 16 DIMM slots (4 banks of 4).							
Sun Fire V880		128GB <sup>1)</sup>	4 <sup>2)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	Not Offered by Sun	DRS880/8192	4		
		<sup>1)</sup> Requires OBP 4.13.2 and POST 4.13.0 versions or greater for configurations exceeding 24GB per CPU/Memory Card.							
		<sup>2)</sup> One to four CPU/Memory Cards can be installed, each supporting two CPUs and 16 DIMM slots (4 banks of 4).							
Sun Fire V890		128GB	4 <sup>1)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	X7058A-Z	DRS880/8192	4		
		<sup>1)</sup> One to four CPU/Memory Cards can be installed, each supporting two CPUs and 16 DIMM slots (4 banks of 4).							
Sun Fire V1280	900MHz, 1.2GHz	96GB	3 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4		
				8GB	X7058A-Z	DRS880/8192	4		
		<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.							
Sun Fire E2900		192GB	3 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4		
				8GB	X7058A-Z	DRS880/8192	4		
		<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU.							
Sun Fire 3800	900MHz, 1.05GHz, 1.2GHz	128GB	2 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4		
				8GB	Not Offered by Sun	DRS880/8192	4		
		<sup>1)</sup> Up to two CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.							
Sun Fire E4900		192GB	3 <sup>1)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4		
				8GB	X7058A-Z	DRS880/8192	4		
		<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU.							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
Sun Fire 4800, 4810	900MHz, 1.05GHz, 1.2GHz	192GB	3 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4
				8GB	Not Offered by Sun	DRS880/8192	4
<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.							
Sun Fire E6900		384GB	6 <sup>1)</sup>	4GB	X7056A, X7056A-Z	DRS280/4096	4
				8GB	X7058A-Z	DRS880/8192	4
<sup>1)</sup> Up to six CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU.							
Sun Fire 6800	900MHz, 1.05GHz, 1.2GHz	384GB	6 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4
				8GB	Not Offered by Sun	DRS880/8192	4
<sup>1)</sup> Up to six CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.							
<b>SPARC ENTERPRISE SERVERS</b>							
SPARC Enterprise T3-1		128GB	16	4GB	SE6X2A11Z	DRST3/4GB	2
				8GB	SE6X2B11Z	DRST3/8GB	2
				16GB	SE6X2C11Z	DRST3/16GB	2
Memory must be installed in matched groups of 4, 8 or 16 DIMMs.							
SPARC Enterprise T3-2		256GB	32	8GB	SE6X2B11Z	DRST3/8GB	2
				16GB	SE6X2C11Z	DRST3/16GB	2
SPARC Enterprise T3-4		512GB	64	8GB	SE6X2B11Z	DRST3/8GB	2
				16GB	SE6X2C11Z	DRST3/16GB	2
SPARC Enterprise T4-1		256GB	16	8GB	7101696	DRST4/8GB	2
				16GB	7101697	DRST4/16GB	2
				32GB	7101698	DRST4/32GB	2
Valid memory configurations are 4, 8 or 16 DIMMs of identical capacity.							
SPARC Enterprise T4-2		512GB	32	8GB	7101696	DRST4/8GB	2
				16GB	7101697	DRST4/16GB	2
				32GB	7101698	DRST4/32GB	2
DIMMs of equal capacity are installed on 2 or 4 Memory Riser Cards, each having 8 DIMM slots. DIMM slots may be half (slots labeled 1 and 2 only) or fully populated.							
SPARC Enterprise T4-4		1TB	64	8GB	7101696	DRST4/8GB	2
				16GB	7101697	DRST4/16GB	2
				32GB	7101698	DRST4/32GB	2
DIMMs of equal capacity are installed on 1 or 2 Processor Modules, each having 32 DIMM slots. DIMM slots on a Processor Module may be half or fully populated.							
SPARC Enterprise T1000		32GB	8	8GB	SEKX2D1Z, X7803A	DRST2000/8GB	2 <sup>1)</sup>
<sup>1)</sup> Memory must be installed in groups of 4 matched DIMMs. Valid configurations are 4 or 8 matched DIMMs.							
SPARC Enterprise T2000		64GB	16	8GB	SEKX2D1Z, X7803A	DRST2000/8GB	2 <sup>1)</sup>
<sup>1)</sup> Memory must be installed in groups of 8 matched DIMMs. Valid configurations are 8 or 16 matched DIMMs.							
SPARC Enterprise T5120, T5220		128GB	16	4GB	SESX2B2Z, X4203AF	DRST5440/4GB	2
				4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
Valid configurations are 4, 8 or 16 DIMMs of the same capacity only.							
SPARC Enterprise T5140		128GB	16	4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
With System Firmware 7.1.6.d or higher, either 1.8V FB-DIMMs (SESX2x1Z, DRST5220, DRST5440) or low voltage (LV) 1.5V FB-DIMMs (SESX2x3Z, DRTS5440LV) are supported. All FB-DIMMs must be the same voltage. If you upgrade to LV 1.5V FB-DIMMs, you must replace all FB-DIMMs. Valid configurations are 8, 12 or 16 DIMMs of the same capacity only.							
SPARC Enterprise T5240		256GB <sup>1)</sup>	32 <sup>1)</sup>	4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
With System Firmware 7.1.6.d or higher, either 1.8V FB-DIMMs (SESX2x1Z, DRST5220, DRST5440) or low voltage (LV) 1.5V FB-DIMMs (SESX2x3Z, DRTS5440LV) are supported. All FB-DIMMs must be the same voltage. If you upgrade to LV 1.5V FB-DIMMs, you must replace all FB-DIMMs. <sup>1)</sup> 256GB with optional Sun Mezzanine Kit. 16 slots on system board; 16 slots on Mezzanine. Valid configurations are 8, 16 or 32 DIMMs of the same capacity only. All 16 slots on Mezzanine must be populated.							
SPARC Enterprise T5440		512GB	64 <sup>1)</sup>	4GB	SESX2B2Z, X4203AF	DRST5440/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
1, 2 or 4 CPU Modules (CMP's) can be installed, each having 4 FB-DIMM slots. 1, 2 or 4 Memory Modules may be installed, each having 12 FB-DIMM slots. Each CMP is paired with a Mem. Mod. All FB-DIMMs in the system must be the same capacity. Each CMP/Mem. Mod. pair supports 3 possible configurations: 4 FB-DIMMs (on the CMP), 8 FB-DIMMs (4 on the CMP, 4 on the Mem. Mod.), or 16 FB-DIMMs (4 on the CMP, 12 on the Mem. Mod.). All CMP/Mem cards must be populated the same to properly enable prtdiag display.							
Sun Blade T6340 Server Module		256GB	32	16GB	T6340-X-28	DRST6340LV/16GB	2
Install DIMMs in sets of 8. Best performance occurs when all 32 slots are populated with identical FB-DIMMs.							
SPARC Enterprise M3000		64GB	8 <sup>1)</sup>	8GB	SEWX2B2Z	DRSM3000S/8GB	4
				16GB	SEWX2C1Z, SEWX2C2Z-N	DRSM3000/16GB	4
				32GB	SEWX2D1Z, SEWX2D2Z-N	DRSM3000/32GB	4
<sup>1)</sup> The 8 DIMM slots are arranged in two groups--"A" and "B". The DIMMs in group "A" must be equal or greater than those in group "B".							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
SPARC Enterprise M4000		256GB	4 <sup>1)</sup>	16GB	SELX2B2Z, SELX2B2P	DRSM5000S/16GB	1 <sup>1)</sup>
				32GB	SELX2C1Z, SELX2C1P	DRSM5000/32GB	1 <sup>1)</sup>
				64GB	SELX2D1Z, SELX2D1P	DRSM5000/64GB	1 <sup>1)</sup>
		Not Offered by Oracle		16GB		DRSM5000DS/16GB	8 <sup>2)</sup>
				32GB		DRSM5000D/32GB	8 <sup>2)</sup>
				64GB		DRSM5000D/64GB	8 <sup>2)</sup>

<sup>1)</sup> The M4000 supports 2 to 4 Memory Cards, each containing 8 DIMM sockets.

Sun's SELX2x1Z and Dataram's DRSM5000/xxGB are Memory Cards with 8 DIMMs installed.

<sup>2)</sup> Dataram's DRSM5000D/xxGB contain 8 DIMMs only and are meant to replace DIMMs of smaller capacity on existing Memory Cards.

Configuration rules should be considered prior to changing system memory. Consult your system's service manual or Dataram's Sales/Customer Support.

SPARC Enterprise M5000		512GB	8 <sup>1)</sup>	16GB	SELX2B2Z, SELX2B2P	DRSM5000S/16GB	1 <sup>1)</sup>
				32GB	SELX2C1Z, SELX2C1P	DRSM5000/32GB	1 <sup>1)</sup>
				64GB	SELX2D1Z, SELX2D1P	DRSM5000/64GB	1 <sup>1)</sup>
		Not Offered by Oracle		16GB		DRSM5000DS/16GB	8 <sup>2)</sup>
				32GB		DRSM5000D/32GB	8 <sup>2)</sup>
				64GB		DRSM5000D/64GB	8 <sup>2)</sup>

<sup>1)</sup> The M5000 supports 2 to 8 Memory Cards, each containing 8 DIMM sockets.

Sun's SELX2x1Z and Dataram's DRSM5000/xxGB are Memory Cards with 8 DIMMs installed.

<sup>2)</sup> Dataram's DRSM5000D/xxGB contain 8 DIMMs only and are meant to replace DIMMs of smaller capacity on existing Memory Cards.

Configuration rules should be considered prior to changing system memory. Consult your system's service manual or Dataram's Sales/Customer Support.

SPARC Enterprise M8000		1TB	128 <sup>1)</sup>	64GB	SEMX2C1Z	DRSM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRSM8000/128GB	16 <sup>1)</sup>

<sup>1)</sup> The M8000 supports up to 4 CMUs, each containing 32 DIMM sockets (8 per CPU).

SPARC Enterprise M9000-32		2TB	256 <sup>1)</sup>	64GB	SEMX2C1Z	DRSM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRSM8000/128GB	16 <sup>1)</sup>

<sup>1)</sup> The M9000 with 32 processors supports up to 8 CMUs, each containing 32 DIMM sockets (8 per CPU).

SPARC Enterprise M9000-64		4TB	512 <sup>1)</sup>	64GB	SEMX2C1Z	DRSM8000/64GB	16 <sup>1)</sup>
				128GB	SEMX2D1Z	DRSM8000/128GB	16 <sup>1)</sup>

<sup>1)</sup> The M9000 with 64 processors supports up to 16 CMUs, each containing 32 DIMM sockets (8 per CPU).

**CARRIER-GRADE SERVERS**

Netra 210		16GB <sup>1)</sup>	8	2GB <sup>2)</sup>	X7704A-4, X7704A, X7604A...	DRS240/2048	2
				4GB <sup>2)</sup>	X7711A-4	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2

<sup>1)</sup> 8GB with single processor models. 4 DIMM slots per processor.

<sup>2)</sup> The use of the 2GB or 4GB upgrades requires Sun Fan Upgrade Kit (X7418A) in older systems.

Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).

Netra 240		16GB	8	2GB	X7704A-4, X7704A, X7604A...	DRS240/2048	2
				4GB	Not Offered by Sun	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	Not Offered by Sun	DRS243/4GB	2

Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).

Netra 20	1750, 2750, 1900, 2900	8GB	8	4GB	X7056A	DRS280/4096	4
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Netra 440		32GB	16 <sup>1)</sup>	4GB	X7711A-4	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2

<sup>1)</sup> Memory is installed on one to four CPU/Memory Cards, each containing one processor and four DIMM slots.

Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).

Netra 1280		96GB	3 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4
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<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.

Netra 1290		192GB	3 <sup>1)</sup>	4GB	X7056A	DRS280/4096	4
				8GB	X7058A-Z	DRS880/8192	4

<sup>1)</sup> Up to three CPU/Memory cards can be installed. Each card supports two or four CPUs and 32 DIMM slots (8 banks of 4). Each CPU controls two banks. DIMMs can only be installed where there is a corresponding CPU. Fill both banks per CPU before moving to the next.

Netra X4200 M2		32GB <sup>1)</sup>	8	4GB	X4226A-C	DRSX4200M2S/4GB	2
				8GB	X4227A-Z, X4233A	DRSX4200M2/8GB	2

<sup>1)</sup> 16GB maximum for single processor models. 4 DIMM slots per processor.

Netra X4250		128GB <sup>1)</sup>	16	8GB	X6382A	DRSX4450/8GB	2
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<sup>1)</sup> 128GB maximum when 8GB FB-DIMMs are available.

Netra X4270		144GB	18	4GB	X4850A, X5870A	DRSX1333R/4GB	1
				8GB	X4851A, X5868A	DRSX1066R/8GB	1

See DDR3 Note #2 at top of Sun x64 Servers section

<b>N E W</b>	<b>Netra X4270 M3</b>	<b>256GB</b>	<b>16</b>	<b>8GB</b>	<b>7100797</b>	<b>DRSN4270M3/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>7100800</b>	<b>DRSN4270M3/16GB</b>	<b>1</b>

**1 or 2 processors each controlling 8 DIMM slots**

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
Netra X4450		256GB <sup>1)</sup>	32	8GB	X6382A	DRSX4450/8GB	2
<sup>1)</sup> 256GB maximum when 8GB FB-DIMMs are available.							
<b>N E W</b>	<b>Netra X6270 M3</b>	<b>384GB</b>	<b>24</b>	<b>8GB</b>	<b>7100797</b>	<b>DRSN4270M3/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>7100800</b>	<b>DRSN4270M3/16GB</b>	<b>1</b>
<b>1 or 2 processors each controlling 12 DIMM slots</b>							
Netra SPARC T3-1, T3-1B		128GB	16	8GB	SE6X2B11Z	DRST3/8GB	2
				16GB	SE6X2C11Z	DRST3/16GB	2
Memory must be installed in matched groups of 4, 8 or 16 DIMMs.							
Netra SPARC T4-1B Server Module		256GB	16	8GB	7101696	DRST4/8GB	2
				16GB	7102494	DRSNT4/16GB	2
				32GB	7102495	DRSNT4/32GB	2
Valid memory configurations are 4, 8 or 16 DIMMs of identical capacity.							
Netra SPARC T4-1		256GB	16	8GB	7101696	DRST4/8GB	2
				16GB	7102494	DRSNT4/16GB	2
				32GB	7102495	DRSNT4/32GB	2
Valid memory configurations are 4, 8 or 16 DIMMs of identical capacity.							
Netra SPARC T4-2		256GB	32	8GB	7101696	DRST4/8GB	2
				16GB	7102494	DRSNT4/16GB	2
DIMMs of equal capacity are installed on 2 or 4 Memory Riser Cards, each having 8 DIMM slots. DIMM slots may be half or fully populated.							
Netra T2000		64GB	16	8GB	SEKX2D1Z, X7803A	DRST2000/8GB	2 <sup>1)</sup>
<sup>1)</sup> Memory must be installed in groups of 8 matched DIMMs. Valid configurations are 8 or 16 matched DIMMs.							
Netra T5220		128GB	16	4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
Valid configurations are 4, 8 or 16 DIMMs of the same capacity only.							
Netra T5440		256GB <sup>1)</sup>	32 <sup>1)</sup>	4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
Either 1.8V FB-DIMMs (SESX2x1Z, DRST52200) or low voltage (LV) 1.5V FB-DIMMs (SESX2x3Z, DRTS5440LV) are supported. Memory Riser 501-7678 supports only 1.8V FB-DIMMs; Memory Riser 511-1231 supports either 1.5V or 1.8V FB-DIMMs. All FB-DIMMs must be the same voltage. If you upgrade to LV 1.5V FB-DIMMs, you must replace all FB-DIMMs. <sup>1)</sup> 256GB with optional Sun Mezzanine Kit. 16 slots on system board; 16 slots on Mezzanine. Valid configurations are 8, 16 or 32 DIMMs of the same capacity only. All 16 slots on Mezzanine must be populated.							
<b>BLADE SERVERS</b>							
<b>DDR3 Note #1:</b> For Sun systems with 12 DIMM slots: Systems feature 1 or 2 processors each controlling 3 memory "channels" of 2 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration: 1 DIMM per channel enables memory speed of 1333MHz; 2 DIMMs per channel reduces speed to 1066MHz; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel.							
<b>DDR3 Note #2:</b> For Sun systems with 18 DIMM slots: Systems feature 1 or 2 processors each controlling 3 memory "channels" of 3 DIMM slots each. For best performance balance the total memory capacity equally between both CPUs. Overall memory speed is dependent upon the processor model and memory configuration: 1 DIMM per channel enables memory speed of 1333MHz; 2 DIMMs per channel reduces speed to 1066MHz; 3 DIMMs per channel reduces speed to 800MHz for single or dual-rank DIMMs; maximum speed with quad-rank DIMMs is 1066MHz with 1 DIMM per channel and 800MHz with 2 DIMMs per channel; 3 quad-rank DIMMs are not supported.							
SPARC T3-1B Server Module		128GB	16	4GB	SE6X2A11Z	DRST3/4GB	2
				8GB	SE6X2B11Z	DRST3/8GB	2
				16GB	SE6X2C11Z	DRST3/16GB	2
Memory must be installed in matched groups of 4, 8 or 16 DIMMs.							
SPARC T4-1B Server Module		256GB	16	8GB	7101696	DRST4/8GB	2
				16GB	7101697	DRST4/16GB	2
				32GB	7101698	DRST4/32GB	2
Valid memory configurations are 4, 8 or 16 DIMMs of identical capacity.							
Sun Blade T6300 Server Module		32GB	8	8GB	X5724A	DRST6300/8GB	2
Sun Blade T6320 Server Module		128GB	16	4GB	SESX2B1Z, X4203A	DRST5220/4GB	2
				4GB	SESX2B2Z, X4203AF	DRST5440/4GB	2
				8GB	SESX2C1Z, X4204A	DRST5220/8GB	2
				16GB	SESX2D1Z, X4290AF	DRST5440/16GB	2
Valid configurations are 4, 8 or 16 DIMMs of the same capacity only. All DIMMs in a branch must be identical.							
Sun Blade X6220 Server Module		64GB	16 <sup>1)</sup>	8GB	X4293A	DRSX6220/8GB	2
<sup>1)</sup> 8 DIMM slots per processor							
Sun Blade X6240 Server Module		128GB	16 <sup>1)</sup>	8GB	X4262A	DRSX6440/8GB	2
				16GB	X4249A	DRSX6440/16GB	2
<sup>1)</sup> 8 DIMM slots per processor							
Sun Blade X6250 Server Module		64GB	16 <sup>1)</sup>	8GB	X4402A	DRSX6250/8GB	2
<sup>1)</sup> 8 DIMM slots per processor							
Sun Blade X6270		144GB	18	4GB	X4654A	DRSX6270-13/4GB	1
				8GB	X4652A	DRSX6270-10/8GB	1
				8GB	Not Offered by Sun	DRSX6270-13/8GB	1
See DDR3 Note #2 at top of Sun Blade Servers section							

**DATARAM MEMORY PRODUCTS**

FAMILY	MODEL	MAX	SLOTS	SIZE	MANUFACTURER #	DATARAM #	BOARDS
Sun Blade X6270 M2		288GB <sup>1)</sup>	18	4GB	X4850A	DRSX1333R/4GB	1
				8GB	X4851A	DRSX1066R/8GB	1
		<sup>1)</sup> 288GB maximum with two processors installed and 18 x 16GB Dual-Rank DIMMs; 9 DIMM slots per CPU	(1.35V)	4GB	X4910A	DRSX1333RL/4GB	1
			(1.35V)	8GB	X4911A	DRSX1333RL/8GB	1
			(1.35V)	16GB	Not Offered by Sun	DRSX1066RQL/16GB	1
		(1.35V)	16GB	Not Offered by Sun	DRSX1333RL/16GB	1	
See DDR3 Note #2 at top of Sun Blade Servers section							
<b>NEW</b>	<b>Sun Blade X6270 M3</b>	<b>384GB</b>	<b>24</b>	<b>8GB</b>	<b>7100790</b>	<b>DRSX4170M3/8GB</b>	<b>1</b>
				<b>16GB</b>	<b>7100794</b>	<b>DRSX4170M3/16GB</b>	<b>1</b>
<b>1 or 2 processors each controlling 12 DIMM slots</b>							
Sun Blade X6275		192GB	24 <sup>1)</sup>	4GB	X4674A	DRSX6275-13/4GB	1
				8GB	X4672A	DRSX6275-10/8GB	1
				8GB	Not Offered by Sun	DRSX6275-13/8GB	1
<sup>1)</sup> 12 DIMM slots per node. See DDR3 Note #1 at top of Sun Blade Servers section							
Sun Blade X6275 M2		384GB	24 <sup>1)</sup>	4GB	X4715A	DRSX6275M2L/4GB	1
				8GB	X4716A	DRSX6275M2L/8GB	1
				16GB	Not Offered by Sun	DRSX6275M2L/16GB	1
				16GB	Not Offered by Sun	DRSX1333RL/16GB	1
See DDR3 Note #1 at top of Sun Blade Servers section							
Sun Blade X6440 Server Module		256GB	32 <sup>1)</sup>	8GB	X4262A	DRSX6440/8GB	2
				16GB	X4249A	DRSX6440/16GB	2
<sup>1)</sup> 8 DIMM slots per processor. Install DIMMs in the slots farthest from the CPU first.							
Sun Blade X6450 Server Module		192GB	24	8GB	X4402A	DRSX6250/8GB	2
Sun Blade X8420 Server Module		128GB	16	8GB	X5095A-Z	DRSX8440/8GB	2
				16GB	Not Offered by Sun	DRSX8440/16GB	2
Four processors per Server Module; 4 DIMM slots (32GB max) per processor.							
Sun Blade X8440 Server Module		256GB	32 <sup>1)</sup>	8GB	X5095A-Z	DRSX8440/8GB	2
				16GB	Not Offered by Sun	DRSX8440/16GB	2
Four processors per Server Module; 8 DIMM slots (64GB max) per processor.							
Sun Blade X8450 Server Module		128GB <sup>1)</sup>	32	8GB	X4402A	DRSX6250/8GB	2
<sup>1)</sup> When 8GB DIMMs are available							
<b>X64 BASED WORKSTATIONS</b>							
Sun Ultra 20 M2		8GB	4	4GB	X5279A-Z	DRSX2100M2/4GB	2
Sun Ultra 24		8GB	4	4GB	X5279A-Z	DRSX2100M2/4GB	2
Sun Ultra 27		24GB	6	4GB	Not Offered by Sun	DRSU27-1333/4GB	1
Sun Ultra 40 M2		64GB <sup>1)</sup>	8 <sup>2)</sup>	8GB	X5289A-Z	DRSU40M2/8GB	2
<sup>1)</sup> Support for a 16GB upgrade and 64GB of system memory requires BIOS version 1.22 or later. <sup>2)</sup> 4 DIMM slots per processor							
<b>SPARC BASED WORKSTATIONS</b>							
Sun Blade 1500		8GB	4	4GB	X7711A-4	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2
Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).							
Sun Ultra 25		8GB	4	2GB	X8704A	DRSU45/2GB	2
				4GB	X8711A	DRSU45/4GB	2
Sun Ultra 45		16GB	8 <sup>1)</sup>	2GB	X8704A	DRSU45/2GB	2
				4GB	X8711A	DRSU45/4GB	2
<sup>1)</sup> 4 DIMM slots per processor							
Sun Blade 2500	1.6GHz	16GB	8 <sup>1)</sup>	2GB	X7704A-4, X7704A, X7604A...	DRS240/2048	2
				4GB	X7711A-4	DRS240/4096	2
				2GB	X7704A-4	DRS243/2GB	2
				4GB	X7711A-4	DRS243/4GB	2
<sup>1)</sup> 8 slots and 16GB with two CPUs. 4 slots and 8GB with one CPU. Dataram recommends Open Boot Prom (OBP) 4.16v1 or later for the use of the DRS243/xxx (DDR333/PC2700).							

DATARAM MEMORY PRODUCTS



MODEL	MAX	Slots	Description	DRAM / AMB	DATARAM #
<b>Intel</b> <a href="http://www.dataram.com">For the latest product and company news, join our mailing list at dataram.com</a>					
<b>Intel Server Boards</b>					
Intel Xeon E5-2600 (Sandy Bridge-EP) 2-way servers			2GB 1Rx8 PC3-12800R-11	Samsung D	DTM64369A <sup>2)</sup>
S2600CP (Canoe Pass)	512GB	16	2GB 1Rx8 PC3-12800R-11	Hynix C	DTM64369C
S2600CO (Copper Pass)	512GB	16	2GB 1Rx8 PC3-12800R-11	Multiple	DTM64369 <sup>2)</sup>
S2600CR (Crown Pass)	512GB	16	<b>4GB 1Rx4 PC3-12800R-11</b>	<b>Multiple</b>	<b>DTM64398</b> <sup>2)</sup>
S2600IP (Iron Pass)	512GB	16	4GB 2Rx8 PC3-12800R-11	Samsung D	DTM64370A <sup>2)</sup>
S2600WP (Washington Pass)	512GB	16	4GB 2Rx8 PC3-12800R-11	Hynix C	DTM64370C
S2600GZ (Grizzly Pass)	768GB	24	4GB 2Rx8 PC3-12800R-11	Multiple	DTM64370 <sup>2)</sup>
			4GB 2Rx8 PC3-12800R-11 VLP	Multiple	DTM64403 <sup>2)</sup>
			8GB 2Rx4 PC3-12800R-11	Samsung D	DTM64378A
			8GB 2Rx4 PC3-12800R-11	Multiple	DTM64378 <sup>2)</sup>
			8GB 2Rx4 PC3-12800R-11 VLP	Multiple	DTM64404 <sup>2)</sup>
			16GB 2Rx4 PC3-12800R-11	Samsung B	DTM64385A
			16GB 2Rx4 PC3-12800R-11	Multiple	DTM64385 <sup>2)</sup>
			8x32GB 4Rx4 PC3L-10600L-9-LRDIMM	Samsung B	DTM64800A <sup>2)</sup>
Intel S2600xx - Unbuffered ECC (2-way)	128GB	24	2GB 1Rx8 PC3-12800E-11	Multiple	DTM64394 <sup>2)</sup>
	128GB	16	4GB 2Rx8 PC3-12800E-11	Multiple	DTM64395 <sup>2)</sup>
			8GB 2Rx8 PC2-12800E-11	Multiple	DTM64396 <sup>2)</sup>
Intel Xeon 5500-5600 2-way server	384GB	12	1GB 1Rx8 PC3-10600R-9	Hynix T	DTM64311F
S5520HC/S5520HCV/S5520HCR/S5520HCVR (Hanlan Creek/Hanlan Creek V)			1GB 1RX8 PC3-8500R-7	Hynix T	DTM64307C
S5520SC/S5520SCR (Shady Cove) (Also accepts UDIMMs-see S5500WB)			2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			2GB 2Rx8 PC3-10600R-9	Hynix T	DTM64312H
			4GB 2Rx4 PC3-10600R-9	Samsung G	DTM64313I
			4GB 2Rx8 PC3-10600R-9	Hynix C	DTM64328D
			16GB 4Rx4 PC3-8500R-7	Samsung D	DTM64327D
			4GB 2Rx4 PC3L-10600R-9	Samsung F/G	DTM64333B
Intel 5500-5600 2-way server	384GB	12	1GB 1Rx8 PC3-10600R-9	Hynix T	DTM64311F
S5520UR/S5520URR (Urbanna) (Also accepts UDIMMs-see S5500WB)			1GB 1Rx8 PC3-10600R-9 VLP	Hynix T	DTM64383A <sup>2)</sup>
			1GB 1RX8 PC3-8500R-7	Hynix T	DTM64307C
			2GB 1Rx8 PC3-10600R-9	Multiple	DTM64360
			2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			2GB 2Rx8 PC3-10600R-9	Multiple	DTM64312 <sup>2)</sup>
			2GB 2Rx8 PC3-10600R-9	Hynix T	DTM64312H
			4GB 2Rx8 PC3-10600R-9 VLP	Hynix C	DTM64343B <sup>2)</sup>
			4GB 2Rx4 PC3-10600R-9	Multiple	DTM64313 <sup>2)</sup>
			4GB 2Rx4 PC3-10600R-9	Samsung G	DTM64313I
			4GB 2Rx8 PC3-10600R-9	Multiple	DTM64328 <sup>2)</sup>
			8GB 2Rx4 PC3-10600R-9	Hynix C	DTM64316 <sup>2)</sup>
			8GB 2Rx4 PC3-10600R-9	Samsung D	DTM64316H
			16GB 4Rx4 PC3-8500R-7	Samsung C	DTM64327C
			16GB 4Rx4 PC3-8500R-7	Samsung D	DTM64327D
			16GB 4Rx4 PC3-8500R-7	Multiple	DTM64327 <sup>2)</sup>
			16GB 2Rx4 PC3-10600R-9	Samsung B	DTM64356A
			32GB 4Rx4 PC3-8500R-7	Multiple	DTM64357 <sup>2)</sup>
			4GB 1Rx4 PC3L-10600R-9	Multiple	DTM64341 <sup>2)</sup>
			8GB 2Rx4 PC3L-10600R-9	Multiple	DTM64340 <sup>2)</sup>
			8GB 2Rx4 PC3L-10600R-9-VLP	Samsung D	DTM64339A <sup>2)</sup>
			8GB 2Rx4 PC3L-10600R-9-VLP	Multiple	DTM64339 <sup>2)</sup>
			16GB 2Rx4 PC3L-10600R-9	Multiple	DTM64377 <sup>2)</sup>
S5500HV (Hayden Valley)	192GB	12	1GB 1Rx8 PC3-10600R-9	Hynix T	DTM64311F
SR1680MV(Marble Valley)per node:	288GB	18	2GB 2Rx8 PC3-10600R-9	Hynix T	DTM64312H
			8GB 2Rx4 PC3-10600R-9	Multiple	DTM64316 <sup>2)</sup>
			16GB 2Rx4 PC3-10600R-9	Multiple	DTM64356 <sup>2)</sup>

1) QUAL PENDING  
 2) QUAL NOT PLANNED  
 3) SUPERMICRO QUAL  
 4) LEGACY  
 5) AIC QUAL.

**DATARAM MEMORY PRODUCTS**

MODEL	MAX	Slots	Description	DRAM / AMB	DATARAM #
S5500WB (Willow Brook)	32GB	8	1GB 1Rx8 PC3-10600E-9	Hynix T	DTM64322B
S5500BC (Bluff Creek)			2GB 1Rx8 PC3-10600E-9	Multiple	DTM64361
			2GB 2Rx8 PC3-10600E-9	Hynix T	DTM64323B
			4GB 2Rx8 PC3-10600E-9	Multiple	DTM64314
(Also accepts RDIMMs-see S5520UR)			8GB 2Rx8 PC3-10600E-9	Multiple	DTM64380
S7000FC4UR (Fox Cove)	256GB	32	1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
			2GB 2Rx8 PC2-5300F-555	Samsung F/IDT	DTM65521C
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
S5400SF (Shoffner)	128GB	16	1GB 1Rx8 PC2-6400F-555	Samsung F/IDT	DTM65538C
			1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
			2GB 2Rx8 PC2-5300F-555	Samsung F/IDT	DTM65521C
			2GB 2Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65536B
			2GB 1Rx4 PC2-5300F-555	Samsung F/IDT-L4	DTM65527E
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
S5000PALR (Alcolu), S5000PSLR (Star Lake), S5000XVNR (Vernonia)	64GB	8	512MB 1Rx8 PC2-5300F-555	Samsung i / IDT	DTM65506H
			1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
			2GB 2Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65536B
			2GB 2Rx8 PC2-5300F-555	Samsung F/IDT	DTM65521C
			2GB 1Rx4 PC2-5300F-555	Samsung F/IDT-L4	DTM65527E
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
			4GB 2Rx4 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65528C
S5000VSAR (Sapello)	16GB	8	1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
S5000VCLR (Callahan)	12GB	6	2GB 2Rx8 PC2-5300F-555	Samsung F/IDT	DTM65521C
			2GB 1Rx4 PC2-5300F-555	Samsung F/IDT-L4	DTM65527E
			4GB 2Rx4 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65528C
S3420GP (Grosse Point)	32GB	6	1GB 1Rx8 PC3-10600R-9	Hynix T	DTM64311F
			2GB 2Rx8 PC3-10600R-9	Multiple	DTM64312
			2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			4GB 2Rx8 PC3-10600R-9	Hynix C	DTM64328D
			4GB 2Rx8 PC3-10600R-9 VLP	Hynix C	DTM64343B
			8GB 4Rx8 PC3-8500R-7	Multiple	DTM64330
			2GB 1Rx8 PC3-10600E-9	Hynix C	DTM64361B
			4GB 2Rx8 PC3-10600E-9	Hynix C	DTM64314D
S1200BTL (Beartooth Pass) C204	32GB	4	2GB 1Rx8 PC3-10600E-9	Hynix C	DTM64361B
S1200BTS (Beartooth Pass) C202	32GB	4	4GB 2Rx8 PC3-10600E-9	Hynix C	DTM64314D
			8GB 2Rx8 PC3-10600E-9	Samsung B	DTM64380A
S3200SH/S3210SH (Snow Hill)	8GB	4	1GB 1Rx8 PC2-6400E-555	Samsung F	DTM63393C
			2GB 2Rx8 PC2-6400E-555	Samsung F	DTM63368C
S3000AH (Aspen Hill)	8GB	4	512MB 1Rx16 DDR2-667E-555	Samsung F	DTM63389C
			1GB 1Rx8 PC2-5300E-555	Samsung F	DTM63391C
			2GB 2Rx8 PC2-5300E-555	Samsung F	DTM63344F
SE7230NH1-E (Nob Hill)	8GB	4	1GB 1Rx8 PC2-5300E-555	Samsung F	DTM63391C
Note: Except for the option of installing a single DIMM in slot 1A or 1B, DIMMs must be installed in matched pairs.			2GB 2Rx8 PC2-5300E-555	Samsung F	DTM63344F
SE7210TP1-E/SR1325TP1-E (Torrey Pines)	4GB	4	512MB DDR400, UNB, ECC, 1Rx8	Samsung G	DTM63715E
			1GB DDR400, UNB, ECC, 2Rx8	Samsung G	DTM63682F
SE7520JR2-2 (Jarrell 2) DDR2	16GB	6	1GB 1Rx4 PC2-3200R-333	Samsung i	DTM63310R
x4 supports SDDC-Chipkill, Install in pairs			2GB 1Rx4 PC2-3200R-333	Hynix C	DTM63320D
Note: No more than the equivalent of 8 ranks may be installed.					
SE7320VP2D2 (Volcano Peak) DDR2	16GB	6	1GB 1Rx4 PC2-3200R-333	Samsung i	DTM63310R
SR1435VP2D2--Maximum 8 ranks			2GB 1Rx4 PC2-3200R-333	Hynix C	DTM63320D

**Intel Desktop Boards**

D2800MT (Marshalltown), D2700DC (Dry Creek), D2700MU (Mount Union), D2700MUD (Mount Union DVI)	8GB	2	2GB 1Rx8 PC3-10600S-9	Samsung D	DTM64605B
			4GB 2Rx8 PC3-10600S-9	Samsung D	DTM64601C
<b>DH61AG (Apple Glen)</b>	<b>16GB</b>	<b>2</b>	2GB 1Rx8 PC3-10600S-9	Samsung D	DTM64605B
			4GB 2Rx8 PC3-10600S-9	Samsung D	DTM64601C
			8GB 2Rx8 PC3-10600S-9	Samsung B	DTM64607A
DQ67SW (Strawberry Mountain), DB65AL (Andrews Lake), DH67CL (Cold Lake), DP67BA (Buffalo Flat)	32GB	4	2GB 1Rx8 PC3-10600U-9	Hynix C	DTM64362B
			4GB 2Rx8 PC3-10600U-9	Hynix C	DTM64329C
			8GB 2Rx8 PC3-10600U-9	Samsung B	DTM64384A
DP67BG (Burrage)	32GB	4	2GB 1Rx8 PC3-12800U-11	Samsung D	DTM64368B
			4GB 2Rx8 PC3-12800U-11	Samsung D	DTM64379A
DX79TO (Thorsby), DX79SI (Siler)	64GB	8	2GB 1Rx8 PC3-12800U-11	Multiple	DTM64368
DZ68ZV (Zainesville),	32GB	4	4GB 2Rx8 PC3-12800U-11	Multiple	DTM64379
DZ68BC (Braiden Creek)	32GB	4	8GB 2Rx8 PC3-10600U-9	Multiple	DTM64384
<b>DZ68DB (Dunes Beach)</b>	32GB	4			

1) QUAL PENDING  
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**DATARAM MEMORY PRODUCTS**

MODEL	MAX	Slots	Description	DRAM / AMB	DATARAM #
<b>DZ77SL, DZ77SL, DH77DF, DH77EB, DH77KC</b>	<b>32GB</b>	<b>4</b>	2GB 1Rx8 PC3-12800U-11	Multiple	DTM64368
			4GB 2Rx8 PC3-12800U-11	Multiple	DTM64379
			8GB 2Rx8 PC3-10600U-9	Multiple	DTM64384
DH57JG (Jet Geysler), DQ57TM (Tunnel Mountain), DH55HC (Hunter Cove), DP55WB (Whitesburg)	16GB	4	1GB 1Rx8 PC3-10600U-9	Hynix T	DTM64303C
			2GB 1Rx8 PC3-10600U-9	Multiple	DTM64362
			2GB 2Rx8 PC3-10600U-9	Hynix T	DTM64304C
			4GB 2Rx8 PC3-10600U-9	Multiple	DTM64329
DP55SB (Sharpsberg), DH55TC (Tom Cove), DH57DD (Dan Dale), DG43RK (Rock Fish)	16GB	4	1GB 1Rx8 PC3-10600U-9	Hynix T	DTM64303C
			2GB 1Rx8 PC3-10600U-9	Multiple	DTM64362
			2GB 2Rx8 PC3-10600U-9	Hynix T	DTM64304C
			4GB 2Rx8 PC3-10600U-9	Multiple	DTM64329
DX38BT (Bone Trail), DX48BT2 (Bone Trail 2)	16GB	4	1GB 1Rx8 PC3-10600E-9	Hynix T	DTM64322B
			2GB 1Rx8 PC3-10600E-9	Multiple	DTM64361
DQ45CB (Cube Cove), DG45ID (Icedale)	16GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
			1GB 1Rx8 PC2-6400U-555	Samsung F	DTM63371B
			2GB 2Rx8 PC2-6400U-555	Samsung F	DTM63367B
DP45SG (Skyburg), DX58SO (Smackover)	16GB	4	1GB 1Rx8 PC3-10600U-9	Hynix T	DTM64303C
			2GB 2Rx8 PC3-10600U-9	Hynix T	DTM64304C
DX58SO2 (Smackover 2)	48GB	6	2GB 1Rx8 PC3-10600E-9	Hynix C	DTM64361B
			4GB 2Rx8 PC3-10600E-9	Hynix C	DTM64314D
			8GB 2Rx8 PC3-10600E-9	Samsung B	DTM64380A
DG35EC (Eva Cove)	8GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
DQ35JO/DQ35MP (Johannesburg/Montpelier)	8GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
			2GB 2Rx8 PC2-6400U-555	Samsung F	DTM63367B
DG33BU/DP35DP/DG33FB (Buffalo Creek/Dragontail Peak/Frostburg)	8GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
			2GB 2Rx8 PC2-6400U-555	Samsung F	DTM63367B
DG33TL (Tower Lake)	8GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
			2GB 2Rx8 PC2-6400U-555	Samsung F	DTM63367B
D975XBX2/S975XBX2 (Bad Axe 2)	8GB	4	2GB 2Rx8 PC2-6400E-555	Samsung F	DTM63368C
DG965WHM (Westchester), DG965SSC (Shewsbury), DQ965GF (Guard Fish)	8GB	4	1GB 2Rx8 PC2-5300U-555	Samsung I	DTM63323E
D915GAV (Avalon), D915GAG (Augsburg)	4GB	4	512MB DDR400, UNBUF, 1Rx8	Samsung G	DTM63741C
			1GB DDR400, UNBUF, 2Rx8	Samsung G	DTM63683J
D865GLC/D865GBF/D865GRH (LaCrosse)	4GB	4	512MB DDR400, UNBUF, 1Rx8	Samsung G	DTM63741C
			1GB DDR400, UNBUF, 2Rx8	Samsung G	DTM63683J

**Radisys Motherboards/SBC**

Endura PL35Q, JD35Q (Intel Q35)	8GB	4	1GB 1Rx8 PC2-6400U-666	Multiple	DTM63808
			2GB 2Rx8 PC2-6400U-555	Samsung F	DTM63367B

**AIC-PSG Motherboards**



AIC "Gemini" RTX	192GB	12	1GB 1Rx8 PC3-10600R-9	Hynix T	DTM64311F
AIC "Castor" CTDP036D-110 (Intel 5520-Tylersburg-EP)	192GB	12	2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			2GB 2Rx8 PC3-10600R-9	Hynix T	DTM64312H
			16GB 4Rx4 PC3-8500R-7	Multiple	DTM64327
Unbuffered ECC also supported			1GB 1Rx8 PC3-10600E-9	Hynix T	DTM64322B
AIC "Aquarius" AQDP5100-110 (Intel 5100-San Clemente)	24GB	6	1GB 1Rx8 PC2-5300P-555	Samsung F	DTM63392F
			2GB 2Rx8 PC2-5300P-555	Samsung F	DTM63394F
AIC "Perseus" PEUP5100-111	8GB	2	2GB 1Rx4 PC2-5300P-555	Hynix C	DTM63369C
			4GB 2Rx4 PC2-5300P-555	Hynix C	DTM63356G
AIC "Aries" ARUP3210-110 (Intel 3210)	8GB	4	1GB 1Rx8 PC2-6400E-555	Samsung F	DTM63393C
			2GB 2Rx8 PC2-6400E-555	Samsung F	DTM63368C
AIC "Aquila" ALUPIBPK-110 Intel Xeon X3400 series	32GB	6	2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			4GB 2Rx8 PC3-10600R-9	Hynix C	DTM64328D
			8GB 4Rx8 PC3-8500R-7	Hynix B	DTM64330A
Unbuffered ECC also supported			1GB 1Rx8 PC3-10600E-9	Hynix T	DTM64322B
			2GB 1Rx8 PC3-10600E-9	Hynix C	DTM64361B

**Supermicro Motherboards**

SBI-7425C, 'B7DC3' (Intel 5100)	24GB	6	2GB 2Rx8 PC2-5300P-555	Samsung F	DTM63394F
			4GB 2Rx4 PC2-5300P-555	Multiple	DTM63356
X9SCA, X9SCD, X9SCi, X9SCL, X9SCM (Intel C204/C202), also for X9DR#-DA#	32GB	4	2GB 1Rx8 PC3-10600E-9	Multiple	DTM64361
			4GB 2Rx8 PC3-10600E-9	Multiple	DTM64314
			8GB 2Rx8 PC3-10600E-9	Multiple	DTM64380

1) QUAL PENDING  
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DATARAM MEMORY PRODUCTS

MODEL	MAX	Slots	Description	DRAM / AMB	DATARAM #
X9DRG, X9DRH, X9DRi	768GB	24	2GB 1Rx8 PC3-12800R-11	Multiple	DTM64369
X9DRW, X9DR3, X9DA7, AE, Ai	512GB	16	<b>4GB 1Rx4 PC3-12800R-11</b>	<b>Multiple</b>	<b>DTM64398</b>
			4GB 2Rx8 PC3-12800R-11	Multiple	DTM64370
			8GB 2Rx4 PC3-12800R-11	Multiple	DTM64378
Intel E5-2600 Xeon (Intel C606/C602/C602J)			16GB 2Rx4 PC3-12800R-11	Multiple	DTM64385
			8x32GB 4Rx4 PC3L-10600L-9-LRDIMM	Samsung B	DTM64800A
X9DR#, X9DA#, Unbuffered ECC	384GB	12	2GB 1Rx8 PC3-12800E-11	Multiple	DTM64394
	256GB	8	4GB 2Rx8 PC3-12800E-11	Multiple	DTM64395
Intel E5-2600 Xeon			8GB 2Rx8 PC2-12800E-11	Multiple	DTM64396
X8DA3*, X8DAi (Intel 5520)	192GB	12	2GB 1Rx8 PC3-10600R-9	Multiple	DTM64360
X8DAL, X8DAi, X8DAE, X8DA6,	288GB	18	4GB 2Rx8 PC3-10600R-9	Multiple	DTM64328
X8DAH+, X8DTN+,			4GB 2Rx4 PC3-10600R-9	Multiple	DTM64313
X8DT3, X8DT6, X8DTE, X8DTG,			4GB 1Rx4 PC3L-10600R-9	Multiple	DTM64341
X8DTH, X8DTL, X8DTT, X8DTU			8GB 2Rx4 PC3-10600R-9	Multiple	DTM64316
			8GB 2Rx4 PC3L-10600R-9	Multiple	DTM64340
			16GB 4Rx4 PC3-8500R-7	Multiple	DTM64327
			16GB 2Rx4 PC3-10600R-9	Multiple	DTM64356
*All modules tested at Dataram on this MB.					
X8DTH-6F (Certified @ CMTL) (Intel S5520)	192GB	12	2GB 2Rx8 PC3L-10600R-9	Samsung G	DTM64332B
			2GB 1Rx8 PC3-10600R-9	Hynix C	DTM64360B
			4GB 2Rx4 PC3-10600R-9	Samsung G	DTM64313I
			4GB 2Rx8 PC3-10600R-9	Hynix C	DTM64328D
			4GB 2Rx8 PC3L-10600R-9	Samsung D	DTM64371A
			4GB 2Rx4 PC3L-10600R-9	Samsung F/G	DTM64333B
			8GB 2Rx4 PC3-10600R-9	Samsung D	DTM64316H
			8GB 2Rx4 PC3L-10600R-9	Samsung D	DTM64340A
			16GB 4Rx4 PC3-8500R-7	Samsung D	DTM64327D
			16GB 4Rx4 PC3-8500R-7	Samsung C	DTM64327C
X8OBN-F, (Intel 7500, E7)	1TB	64	8GB 2Rx4 PC3-10600R-9	Multiple	DTM64316
X8QB6-LF/F, X8QBE-LF/F	512GB	32	16GB 4Rx4 PC3-8500R-7	Multiple	DTM64327
			32GB 4Rx4 PC3-8500R-7	Multiple	DTM64357
X8SI6 (Intel 3420)	32GB	6	2GB 1Rx8 PC3-10600R-9	Multiple	DTM64360
X8SIA, X8SIE, X8SIL			4GB 2Rx8 PC3-10600R-9	Multiple	DTM64328
X8SIU, X8SIT			8GB 4Rx8 PC3-8500R-7	Multiple	DTM64330
X8SAX (Intel X58)	24GB	6	1GB 1Rx8 PC3-10600E-9	Hynix T	DTM64322B
X8ST3, X8STE, X8STi			2GB 1Rx8 PC3-10600E-9	Multiple	DTM64361
			4GB 2Rx8 PC3-10600E-9	Multiple	DTM64314
X7DWN+ (Intel 5400 Seaburg)	128GB	16	1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
X7DW#	64GB	8	2GB 2Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65536B
			2GB 1Rx4 PC2-5300F-555	Samsung F/IDT-L4	DTM65527E
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
X7DB# (Intel 5000P Blackford)	64GB	16	1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
	64/32GB	8	2GB 1Rx4 PC2-5300F-555	Samsung F/IDT-L4	DTM65527E
			2GB 2Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65536B
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
X7DA# (Intel 5000X Greencreek)	32GB	8	1GB 1Rx8 PC2-5300F-555	Samsung F/IDT	DTM65526C
X7DV# (Intel 5000V Blackford VS)	24GB	6	2GB 2Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65536B
			4GB 4Rx8 PC2-5300F-555-LPwr	Samsung F/IDT-L4	DTM65523C
X7DC# (Intel 5100 San Clemente)	48GB	6	1GB 1Rx8 PC2-5300P-555	Samsung F	DTM63392F
			2GB 1Rx4 PC2-5300P-555	Hynix C	DTM63369C
			4GB 2Rx4 PC2-5300P-555	Hynix C	DTM63356G
X6DH# (Intel E7520 Lindenhurst)	16GB	6	1GB 1Rx4 PC2-3200R-333	Samsung i	DTM63310R
			2GB 1Rx4 PC2-3200R-333	Hynix C	DTM63320D
X6DA# (Intel E7525 Tumwater)	16GB	6	1GB 1Rx4 PC2-3200R-333	Samsung i	DTM63310R
X6DV# (Intel E7320 Lindenhurst VS)	12GB	6	2GB 1Rx4 PC2-3200R-333	Hynix C	DTM63320D
X7SB# (Intel 3210/3200 Bigby)	8GB	4	1GB 1Rx8 PC2-6400E-555	Samsung F	DTM63393C
			2GB 2Rx8 PC2-6400E-555	Samsung F	DTM63368C

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DATARAM MEMORY PRODUCTS

MODEL	MAX	Slots	Description	DRAM / AMB	DATARAM #
<b>AMD</b>					
<b>Tyan Opteron Server Boards - Socket 1207</b>					
Tyan Thunder n3600M (S2932-E), Tyan Thunder h2000M (S3992-E) (DDR2-800)	64GB	16	2GB 1Rx4 PC2-6400P-555	Multiple	DTM63352 <sup>2)</sup>
Tyan Thunder n4250QE (S4985-E)	128GB	16	1GB 1Rx8 PC2-5300P-555 2GB 2Rx8 PC2-5300P-555 4GB 2Rx4 PC2-5300P-555	Samsung F Samsung F Multiple	DTM63392F <sup>2)</sup> DTM63394F <sup>2)</sup> DTM63356 <sup>2)</sup>
Tyan Tempest i5100T (S5377) (w/5100 Intel San Clemente)	32GB	8	1GB 1Rx8 PC2-5300P-555 2GB 2Rx8 PC2-5300P-555 2GB 1Rx4 PC2-5300P-555 4GB 2Rx4 PC2-5300P-555	Samsung F Samsung F Hynix C Multiple	DTM63392F <sup>2)</sup> DTM63394F <sup>2)</sup> DTM63369C <sup>2)</sup> DTM63356 <sup>2)</sup>
Tyan Thunder n3600R (S2912-E) Tyan Thunder n6650W (S2915-E)	64GB	8	1GB 1Rx8 PC2-5300P-555 2GB 2Rx8 PC2-5300P-555 2GB 1Rx4 PC2-5300P-555	Samsung F Samsung F Hynix C	DTM63392F <sup>2)</sup> DTM63394F <sup>2)</sup> DTM63369C <sup>2)</sup>
# Ranks	DRAM Org	Module Speed	DRAM Speed	Module Type	CAS Latency
1R	x4	PC2-3200	DDR2-400	U = Unbuffered Non-ECC	3
2R	x8	PC2-4200	DDR2-533	E = Unbuffered ECC	4
4R	x16	PC2-5300	DDR2-667	R = Registered ECC	5
8R		PC2-6400	DDR2-800	P = REG ECC w/parity	6
		PC3-8500	DDR3-1066	L = LRDIMM	7
		PC3-10600	DDR3-1333	S = SODIMM	9
		PC3-12800	DDR3-1600	F = Fully Buffered DIMM	11
		PC3-15000	DDR3-1866	PC3L-xx (1.35V-LV)	12, 13