

PRIMERGY BX2560 M2

System configurator and order-information guide

Contents

Instructions

Configuration diagram

Configurator

- X **BX2560 M2 Dual Socket**
- XI Processor
- XII Storage
- XIII Memory
- XIV iRMC S4, Graphics
- XV Mezzanine Cards



PRIMERGY Server

Instructions

This document contains basic product and configuration information that will enable you to configure your system via System-Architect.

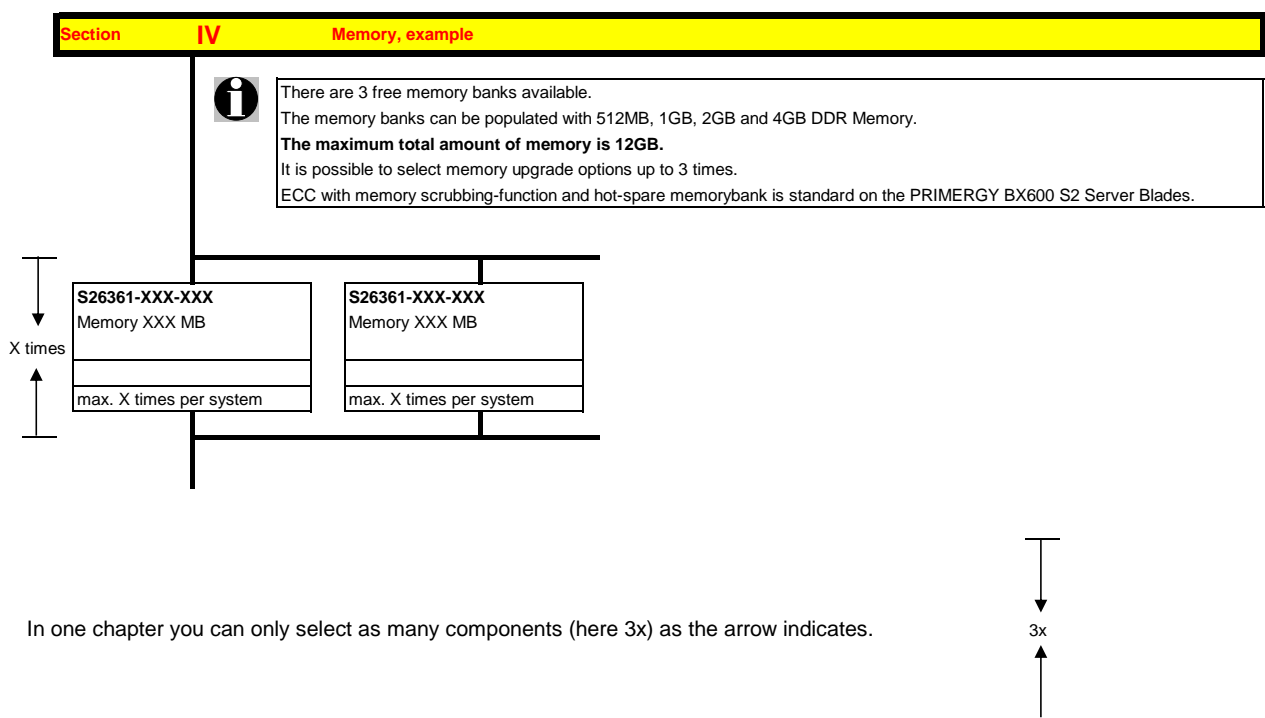
Only the tool "System-Architect" will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

Please pay attention to the naming conventions: BX2560 M2 Dual Server Blade M2

You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect.

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 3x) as the arrow indicates.

Please note that there are information symbols which indicate necessary information.



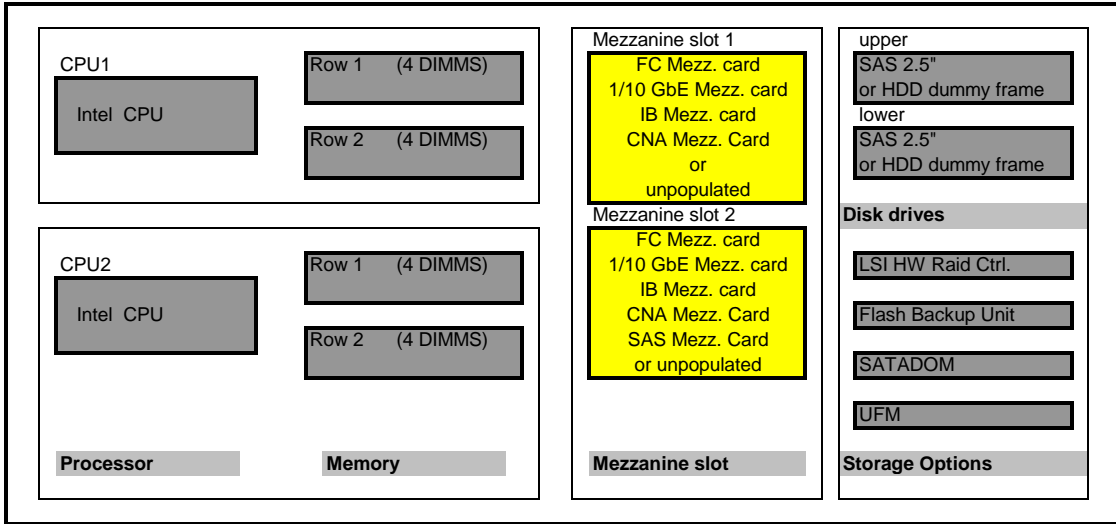
For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/Pages/Currentconfigurators.aspx (extranet)

Prices and availability see price list and PC-/ System-Architect
 Subject to change and errors excepted

Configuration diagram Dual Server Blade BX2560 M2



Key:

[Light Gray Box] Included in basic unit [Dark Gray Box] Option

The population order for the CPU is: CPU1 first, then CPU2

The population order for the DIMMs: for each CPU, the DIMM row 1 (DIMMS 1A 1B 1C 1D) (DIMMS1E 1F 1G 1H) first, then row 2 (DIMMs 2A 2B 2C 2D) (DIMMS 2E 2F 2G 2H)

D

Section X Dual Socket Server Blade BX2560 M2



Server Blade with:

- Dual INTEL E5-26xxv4 Processor Support
- The base units with INTEL C610 chipset
- onboard controller for SATA
- 16 DIMM sockets, organized in 2 DPC for each CPU (8 DIMMs per CPU)
- 1x Dual channel 10 Gbit Ethernet CNA controller on-board
- 2 bays for optional hot plug 2.5" SATA/ SAS HDD/ SSD or PCIe SSD
- iRMC S4 on-board
- Special connector for Y-cable (4x USB, 1 x serial, 1x VGA).



The BX2560 M2 Server Blade can be installed max. 18x in the BX900 System Unit
The BX2560 M2 Server Blade can be installed max. 8x in the BX400 System Unit

18x

S26361-K1561-V200
 PY BX2560 M2 Dual Server Blade
 up to 2x 2.5" hot plug drives.
 Dual Server Blade Base Unit without CPU and without memory modules!
 For CPU and Memory configuration see below
 Max. 18x per BX900 System Unit.
 Max. 8x per BX400 System Unit.

S26361-F4478-L2
 PY BX900 Y-Cable frontside for KVM connection to
Server Blade
 2x USB, 1x VGA, 1x serial

S26361-F3552-E6
 TPM 1.2 Module
 Trusted Platform Module on motherboard
 PY TPM Module
 Be aware of import restrictions!
 Max. 1x per Server Blade.

S26361-F3552-E10
 TPM 2.0 Module
 Trusted Platform Module on motherboard
 PY TPM Module
 Be aware of import restrictions!
 Max. 1x per Server Blade.

S26361-F3552-L6
 TPM 1.2 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

S26361-F3552-L10
 TPM 2.0 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

S26361-F1790-E310
 embedded Lifecycle Manager (eLCM)
 SD-Card (min. Class 10)
 SD-Card connected to iRMC to support e.g. Backup/Restore function, eLCM, etc.
 Max. 1x per Server Blade.

S26361-F3552-L23
 TPM 1.2 Module add-on kit for later integration (loose delivery)
 Trusted Platform Module on Motherboard

Following USB Components are available	
1) USB DVD SM / Blu-Ray External Blu-Ray Drive (as soon as available)	S26341-F103-L120
2) USB Mouse: Optical Wheel Mouse Tilt USB/PS2	S26381-K415-L100
3) USB Memorybird: MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216

S26361-F2749-E1
 Service for Server Blade installation in the System Unit.
Hereby the BX900 S1 will be delivered completely configured and tested with Server Blades integrated.
 This order number must be in the same order as the System Unit itself.
 min. 1x per System Unit; max. 18x per System Unit; max. 1x per Server Blade

S26361-F2749-E2
 Server Blade individually packed / delivered.
The Server Blade is not built in a BX900 S1, it is separately tested and delivered.
 Contains ServerStart CD
 max. 1x per Server Blade

E

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Section XI Processor

There are 2 processor sockets available.
The first socket must always be equipped with the **first CPU** which can be selected via configurator
Two processors with different clock frequencies are not possible



For CPU types E5-2637v4, E5-2643v4, E5-2667v4, E5-2697v4, E5-2697Av4 and E5-2699v4 a larger heat sink is necessary for first CPU due to thermal conditions.
This leads to a limitation of CPU1's memory array to 6 DIMM modules.
This follows the memory array of a single CPU configuration is limited to 6 DIMM modules and the memory array of a dual CPU configuration is limited to 14 DIMM modules.

Max. two CPU's can be selected per basic unit	
One of following CPU's can be selected once (only as first CPU) for an orderable basic unit	
Optional second CPU has to be the same type like the first CPU	
Xeon E5-2600v4 (R) Basic	
- 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W	S26361-F3933-E103
Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W	S26361-F3933-E109
Xeon E5-2600v4 (R) Standard	
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W	S26361-F3933-E120
Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W	S26361-F3933-E130
Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W	S26361-F3933-E140
Xeon E5-2600v4 (R) Advanced	
- 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W	S26361-F3933-E150
Xeon E5-2660v4 12C/24T 2.00GHz 30MB 9.6GT/s 2400MHz 105W	S26361-F3933-E160
Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W	S26361-F3933-E180
Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W	S26361-F3933-E190
Xeon E5-2600v4 (R) Frequency Optimized	
- 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W	S26361-F3933-E123
Xeon E5-2637v4 4C/8T 3.50GHz 10MB 9.6GT/s 2400MHz 135W	S26361-F3933-E137
Xeon E5-2643v4 6C/12T 3.40GHz 15MB 9.6GT/s 2400MHz 135W	S26361-F3933-E143
Xeon E5-267v4 8C/16T 3.20GHz 20MB 9.6GT/s 2400MHz 135W	S26361-F3933-E167
Xeon E5-2600v4 (R) High Core Count	
- 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W	S26361-F3933-E183
Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W	S26361-F3933-E195
Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W	S26361-F3933-E197
Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W	S26361-F3933-E191
Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W	S26361-F3933-E198
Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W	S26361-F3933-E199
Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W	S26361-F3933-E192
Xeon E5-2600v4 (R) Low Power	
- 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W	S26361-F3933-E131
Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W	S26361-F3933-E151



Max. DDR4 Bus Speed depends on:
- max. DDR4 Bus Speed from the CPU and
- max. DDR4 Memory Speed and
- max. memory modules on one memory channel
For CPUs which do not offer 1866 MHz support, (Basic, Standard & Low Power class), System Architect will not offer memory modules supporting this frequency.

E1

E1

S26361-F3849-E100
Cooling Kit 2nd CPU

One of following CPU's has to be selected as second CPU	
Optional second CPU has to be the same type like the first CPU	
Xeon E5-2600v4 (R) Basic	
- 1x 64-bit Intel Xeon (15MB Smart Cache) 1866 MHz DDR4 Bus; 6.4 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W	S26361-F3933-E103
Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W	S26361-F3933-E109
Xeon E5-2600v4 (R) Standard	
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT); 2133 MHz DDR4 Bus; 8.0 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W	S26361-F3933-E120
Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W	S26361-F3933-E130
Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W	S26361-F3933-E140
Xeon E5-2600v4 (R) Advanced	
- 1x 64-bit Intel Xeon (25/30MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W	S26361-F3933-E150
Xeon E5-2660v4 12C/24T 2.00GHz 30MB 9.6GT/s 2400MHz 105W	S26361-F3933-E160
Xeon E5-2680v4 14C/28T 2.40GHz 35MB 9.6GT/s 2400MHz 120W	S26361-F3933-E180
Xeon E5-2690v4 14C/28T 2.60GHz 35MB 9.6GT/s 2400MHz 135W	S26361-F3933-E190
Xeon E5-2600v4 (R) Frequency Optimized	
- 1x 64-bit Intel Xeon (10-20MB Smart Cache); Hyper-Threading (HT); 2133 & 2400 MHz DDR4 Bus; 8.0 & 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W	S26361-F3933-E123
Xeon E5-2637v4 4C/8T 3.50GHz 10MB 9.6GT/s 2400MHz 135W	S26361-F3933-E137
Xeon E5-2643v4 6C/12T 3.40GHz 15MB 9.6GT/s 2400MHz 135W	S26361-F3933-E143
Xeon E5-2667v4 8C/16T 3.20GHz 20MB 9.6GT/s 2400MHz 135W	S26361-F3933-E167
Xeon E5-2600v4 (R) High Core Count	
- 1x 64-bit Intel Xeon (35-40MB Smart Cache); Hyper-Threading (HT); 2400 MHz DDR4 Bus; 9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2683v4 16C/32T 2.10GHz 40MB 9.6GT/s 2400MHz 120W	S26361-F3933-E183
Xeon E5-2695v4 18C/36T 2.10GHz 45MB 9.6GT/s 2400MHz 120W	S26361-F3933-E195
Xeon E5-2697v4 18C/36T 2.30GHz 45MB 9.6GT/s 2400MHz 145W	S26361-F3933-E197
Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W	S26361-F3933-E191
Xeon E5-2698v4 20C/40T 2.20GHz 50MB 9.6GT/s 2400MHz 135W	S26361-F3933-E198
Xeon E5-2699v4 22C/44T 2.20GHz 55MB 9.6GT/s 2400MHz 145W	S26361-F3933-E199
Xeon E5-2699Av4 22C/44T 2.40GHz 55MB 9.6GT/s 2400MHz 145W	S26361-F3933-E192
Xeon E5-2600v4 (R) Low Power	
- 1x 64-bit Intel Xeon (20/30MB Smart Cache); Hyper-Threading (HT); 2133/2400 MHz DDR4 Bus; 8.0/9.6 GT/s QPI Bus occupies socket for one CPU	
Xeon E5-2630Lv4 10C/20T 1.80GHz 25MB 8.0GT/s 2133MHz 55W	S26361-F3933-E131
Xeon E5-2650Lv4 14C/28T 1.70GHz 35MB 9.6GT/s 2400MHz 65W	S26361-F3933-E151



Separate orderable CPU upgrade kits	
S26361-F3933-L603	Xeon E5-2603v4 6C/6T 1.70GHz 15MB 6.4GT/s 1866MHz 85W
S26361-F3933-L609	Xeon E5-2609v4 8C/8T 1.70GHz 20MB 6.4GT/s 1866MHz 85W
S26361-F3933-L620	Xeon E5-2620v4 8C/16T 2.10GHz 20MB 8.0GT/s 2133MHz 85W
S26361-F3933-L630	Xeon E5-2630v4 10C/20T 2.20GHz 25MB 8.0GT/s 2133MHz 85W
S26361-F3933-L640	Xeon E5-2640v4 10C/20T 2.40GHz 25MB 8.0GT/s 2133MHz 90W
S26361-F3933-L650	Xeon E5-2650v4 12C/24T 2.20GHz 30MB 9.6GT/s 2400MHz 105W
S26361-F3933-L623	Xeon E5-2623v4 4C/8T 2.60GHz 10MB 8.0GT/s 2133MHz 105W

E2

E2

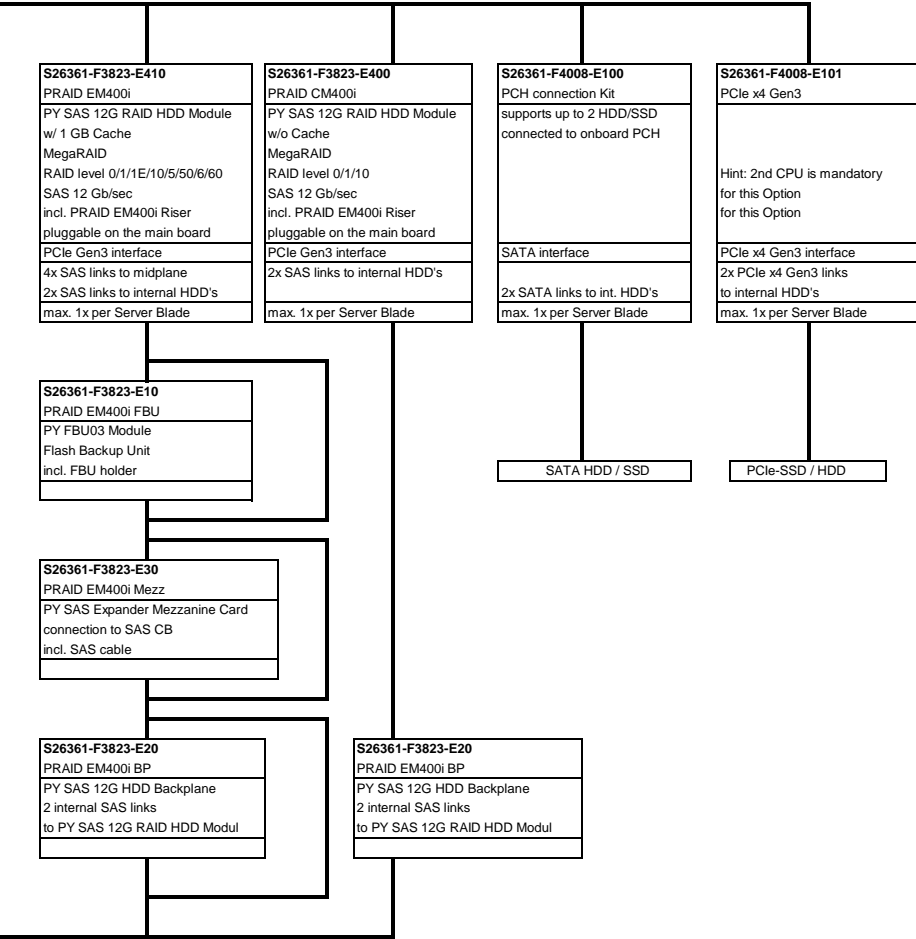
Section XII Storage / RAID Functionality on Server Blade

i One UFM can be installed independent from the disk drives
 Remark: UFM is part of the VMWare Embedded solution (S26361-F2341-E431, -E432, -E433)

i Configuration Hint - Second CPU needed for PCIe x4 Gen3 SSD/HDD Option
 The PCIe HDD/SSD Option is only supported if the second CPU is installed

i Please refer the following configuration matrix for your desired configuration.

	Controller Device	PCIe	PCH	PCH	PRAID EM400i	PRAID EM400i	PRAID EM400i	PRAID CM400i
	int. HDD/SSD	PCIe	SATA	SATA	SAS/SATA	SAS/SATA	SAS/SATA	SAS/SATA
	ext. HDD/SSD							
BTO Device								
PRAID EM400i	S26361-F3823-E410	no	no	mandatory	mandatory	mandatory	no	
PRAID CM400i	S26361-F3823-E400	no	no	no	no	no	mandatory	
PCH connection Kit	S26361-F4008-E100	no	mandatory	mandatory	no	no	no	
PCIe x4 Gen3	S26361-F4008-E101	mandatory	no	no	no	no	no	
PRAID EM400i FBU	S26361-F3823-E10	no	no	optional	optional	optional	no	
PRAID EM400i Mezz	S26361-F3823-E30	no	no	mandatory	mandatory	no	no	
PRAID EM400i BP	S26361-F3823-E20	no	no	no	no	mandatory	mandatory	



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Warranty:

SSD and SATA DOM have a built-in Wear-Out indicator. In this case the warranty for such a component, as an exception to the system warranty, is restricted to the time period until the indicator reaches the exhaust level.

1 - 2x	Solid State Disk, Mainstream Endurance*	<table border="1"> <tr> <th colspan="2">SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray</th> </tr> <tr> <td>400GB, Enterprise Performance</td> <td>S26361-F5710-E400</td> </tr> <tr> <td>800GB, Enterprise Performance</td> <td>S26361-F5710-E800</td> </tr> <tr> <td>1.6TB, Enterprise Performance</td> <td>S26361-F5710-E160</td> </tr> <tr> <td>400GB, Enterprise Performance</td> <td>S26361-F5608-E400</td> </tr> <tr> <td>800GB, Enterprise Performance</td> <td>S26361-F5608-E800</td> </tr> <tr> <td>1.6TB, Enterprise Performance</td> <td>S26361-F5608-E160</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </table>	SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray		400GB, Enterprise Performance	S26361-F5710-E400	800GB, Enterprise Performance	S26361-F5710-E800	1.6TB, Enterprise Performance	S26361-F5710-E160	400GB, Enterprise Performance	S26361-F5608-E400	800GB, Enterprise Performance	S26361-F5608-E800	1.6TB, Enterprise Performance	S26361-F5608-E160	max. 2x per system		*) SSD Mainstream Endurance 10DWPD over 5y												
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1 - 2x	Solid State Disk, Mixed Use*	<table border="1"> <tr> <th colspan="2">SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray</th> </tr> <tr> <td>480GB, Mixed use (Read / Write)</td> <td>S26361-F5614-E480</td> </tr> <tr> <td>960GB, Mixed use (Read / Write)</td> <td>S26361-F5614-E960</td> </tr> <tr> <td>1.92TB, Mixed use (Read / Write)</td> <td>S26361-F5614-E192</td> </tr> <tr> <td>3.84TB, Mixed use (Read / Write)</td> <td>S26361-F5614-E384</td> </tr> <tr> <td>400GB, Mixed use (Read / Write)</td> <td>S26361-F5713-E400</td> </tr> <tr> <td>800GB, Mixed use (Read / Write)</td> <td>S26361-F5713-E800</td> </tr> <tr> <td>1.6TB, Mixed use (Read / Write)</td> <td>S26361-F5713-E160</td> </tr> <tr> <td>3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)</td> <td>S26361-F5713-E320</td> </tr> <tr> <td>400GB, Mixed use (Read / Write)</td> <td>S26361-F5666-E400</td> </tr> <tr> <td>800GB, Mixed use (Read / Write)</td> <td>S26361-F5666-E800</td> </tr> <tr> <td>1.6TB, Mixed use (Read / Write)</td> <td>S26361-F5666-E160</td> </tr> <tr> <td>3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)</td> <td>S26361-F5666-E320</td> </tr> <tr> <td colspan="2">max. 2x per system</td> </tr> </table>	SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray		480GB, Mixed use (Read / Write)	S26361-F5614-E480	960GB, Mixed use (Read / Write)	S26361-F5614-E960	1.92TB, Mixed use (Read / Write)	S26361-F5614-E192	3.84TB, Mixed use (Read / Write)	S26361-F5614-E384	400GB, Mixed use (Read / Write)	S26361-F5713-E400	800GB, Mixed use (Read / Write)	S26361-F5713-E800	1.6TB, Mixed use (Read / Write)	S26361-F5713-E160	3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)	S26361-F5713-E320	400GB, Mixed use (Read / Write)	S26361-F5666-E400	800GB, Mixed use (Read / Write)	S26361-F5666-E800	1.6TB, Mixed use (Read / Write)	S26361-F5666-E160	3.2TB, Mixed use (Read / Write), 2.3DWPD (5y)	S26361-F5666-E320	max. 2x per system		*) SSD Mixed use (Read/Write) 3DWPD over 5y
	SSD SAS 12Gb/s 2.5" with hot plug/hot replace tray																														
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▼ 1 - 2x ↑	3.2TB, NVMe, Mixed Use (3.1DWPD/5y)	S26361-F5737-E320	as soon as available
	1.6TB, NVMe, Mixed Use (3.0DWPD/5y)	S26361-F5648-E160	
	3.2TB, NVMe, Mixed Use (3.1DWPD/5y)	S26361-F5648-E320	
	max. 2x per system		

1x	SSD SATA DOM
	64GB, 0.14 DWPD over 5y S26361-F5619-E64
	128GB, 0.13 DWPD over 5y S26361-F5619-E128
	SATA DOM is designed for use as a boot drive with the Endurance Spec. above. VMware not supported. max. 1x per system
1-2x	HDD SATA 6Gb/s 2.5" hot plug/hot replace
	1TB 7.200rpm, <9.5ms, 64MB Cache, 512n S26361-F3816-E100
	2TB 7.200rpm, 128MB Cache, 512n S26361-F3956-E200
	1TB 7.200rpm, 128MB Cache, 512e S26361-F3907-E100
	2TB 7.200rpm, 128MB Cache, 512e S26361-F3907-E200
	512e drives are not supported with VMware 6.0 or earlier max. 2x per system
1 - 2x	HDD SAS 12Gb/s 2.5" hot plug/hot replace
	300GB, 10krpm, 128MB Cache, 512n S26361-F5550-E130
	600GB, 10krpm, 128MB Cache, 512n S26361-F5550-E160
	900GB, 10krpm, 128MB Cache, 512n S26361-F5550-E190
	1.2TB, 10krpm, 128MB Cache, 512n S26361-F5550-E112
	450GB, 10krpm, 128MB Cache, 512e S26361-F5543-E145
	600GB, 10krpm, 128MB Cache, 512e S26361-F5543-E160
	900GB, 10krpm, 128MB Cache, 512e S26361-F5543-E190
	1.2TB, 10krpm, 128MB Cache, 512e S26361-F5543-E112
	1.8TB, 10krpm, 128MB Cache, 512e S26361-F5543-E118
	300GB 15krpm, 128MB Cache, 512n S26361-F5531-E530
	450GB 15krpm, 128MB Cache, 512n S26361-F5531-E545
	600GB 15krpm, 128MB Cache, 512n S26361-F5531-E560
	1TB, 7.2krpm, 128MB Cache, 512e S26361-F5573-E100
	2TB, 7.2krpm, 128MB Cache, 512e S26361-F5573-E200
	512e drives are not supported with VMware 6.0 or earlier max. 2x per system
	F

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Section III Memory



- There are 8 memory slots per CPU for max.
512GB LRDIMM (8x 64GB 4R)
256GB RDIMM (8x 32GB 2R)
=> max. 1024GB for two CPU's (512GB per CPU), using LRDIMM
=> max. 2.048GB for two CPUs, using upcoming 8Rx4 LRDIMM technology with 128GB per module
- The memory area is divided into 4 channels per CPU with 2 slots per channel
- Slot 1 of each channel belongs to memory bank 1, slot 2 belongs to memory bank 2

Registered and Load Reduced DIMMs can be selected
No mix of registered and load reduced modules is allowed.
Memory will be operated at 1.2V.
Depending on the CPU following memory speeds will be reached:
In a single DIMM per channel configuration 21400MHz will be supported
This is also valid for dual LRDIMM configurations (2400MHz)
In a dual RDIMM configuration 2400MHz will be supported
SDDC (Chipkill) is supported for registered and load reduced x4 organized memory modules

1.) In the "Independent Channel Mode" is following configuration possible
Channels can be populated in any order in Independent Channel Mode. All four channels may be populated in any order and have no matching requirements. All channels must run at the same interface frequency but individual channels may run at different DIMM timings (RAS latency, CAS latency, and so forth)
No mix of registered and load reduced modules is allowed.

2.) "Rank Sparing Mode" configuration
Within a memory channel, one rank is a spare of the other ranks.
The Spare Rank is held in reserve and is not available as system memory
For the effective memory capacity, please refer to the spreadsheet below.
The BIOS is set to the rank sparing setting.
Minimum configuration is: 2x 1R, 2x 2R or 1x4R DDR4 module per channel

3.) "Performance Mode" configuration
In this configuration, the memory module population ex factory is spread across all channels.
The BIOS is set to the max. performance for memory.
Minimum configuration is four identical modules per CPU

4.) In the "Mirrored Channel Mode" is following configuration possible
Each memory bank can optionally be equipped with four registered or load reduced DDR4 modules
In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.
In channel B / D is always the mirrored memory of channel A / C of CPU 1
In channel F / H is always the mirrored memory of channel E / G of CPU 2
Minimum configuration is: 4x identical modules

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S26361-F3694-E10 Independent Mode
 Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined
Requires min 1 memory Module per CPU

S26361-F3694-E1 Rank Sparing Mode Installation
 BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel. Spare Rank is not shown in System Memory.
 For effective capacity within a channel, please have a look below.
Requires min 2x 1R/2R or 1x 4R modules per CPU

S26361-F3694-E2 Performance Mode Installation
 BIOS Setup factory preinstalled for maximum Performance, Four identical memory modules will be equipped in one memory bank to achieve highest memory performance. All four modules are active and full capacity can be used.
Multiple of 4 identical modules to be configured per CPU

S26361-F3694-E3 Mirrored Channel Mode Installation
 BIOS Setup factory preinstalled to this mode. Four identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only two modules contain active data, the remain two modules contain mirrored data
Multiple of 4 identical modules to be configured per CPU

1x per CPU

i Effective Memory capacity / Rank Sparing Mode, 1 Channel populated

	RDIMM			LRDIMM	
	8GB 1R	16GB 2R	32GB 2R	64GB 4R	128GB 8R
1DPC				48GB	112GB
2DPC	8GB	24GB	48GB	112GB	240GB

i Minimum one memory module or order code per CPU = first memory

i Note 1)
 Max. DDR4 memory speed depends on the memory configuration (No of mem modules per channel) as well as on the CPU type.
 The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.
 For real memory speed (depending on memory type / population), please check the spreadsheet "Memory speed" below

i Note 2)
 Mix of memory modules is only possible within the same group

12x per CPU, max. 3 modules per channel

Registered Memory (RDIMM) with SDDC (chipkill) support		
- one DDR4 registered ECC memory Module, 1.2V		
Choose up to 12 order codes per CPU		
8GB (1x8GB) 1Rx4 DDR4-2400 R ECC	S26361-F3934-E611	
16GB (1x16GB) 2Rx4 DDR4-2400 R ECC	S26361-F3934-E612	
32GB (1x32GB) 2Rx4 DDR4-2400 R ECC	S26361-F3934-E615	
Registered Memory (RDIMM 3DS)		
64GB (1x64GB) 4Rx4 DDR4-2400 3DS ECC	S26361-F3934-E617	available from Q4/2017
Registered Memory (RDIMM) without SDDC (chipkill) support		
- one DDR4 registered ECC memory Module, 1.2V		
Choose up to 12 order codes per CPU		
8GB (1x8GB) 2Rx8 DDR4-2400 R ECC	S26361-F3934-E614	on special release only
16GB (1x16GB) 2Rx8 DDR4-2400 R ECC	S26361-F3934-E613	
Load Reduced Memory (LRDIMM) with SDDC (chipkill) support		
- one DDR4 load reduced ECC memory Module, 1.2V		
Choose up to 12 order codes per CPU		
64GB (1x64GB) 4Rx4 DDR4-2400 LR ECC	S26361-F3935-E616	
128GB (1x128GB) 8Rx4 DDR4-2400 LR ECC	S26361-F3935-E617	late availability expected

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Memory Configuration PRIMERGY BX2560 M2

Each CPU offers 8 Slots for DDR4 Memory Modules organised in **2 Banks and 4 Channels**.

If you need more than 8 Slots you have to configure the 2nd CPU.

Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 2 different kinds of DDR4 Memory Modules available: RDIMM and LRDIMM

Mix of RDIMM and LRDIMM is not allowed.

Mode	Configuration	RDIMM	RDIMM	Application
			LRDIMM	
		x8	x4	
SDDC (chipkill) support	any	no	yes	detect multi-bit errors
Independant Channel Mode	1, 2 or 3 Modules per Bank	yes	yes	offers max. flexibility, upgradeability, capacity
Mirrored Channel Mode *)	4 identical Modules / Bank	no	yes	offers maximum security
Performance Mode	4 identical Modules / Bank	yes	yes	offers maximum performance and capacity
Rank Sparing Mode *)	min. 2 Ranks / Channel	no	yes	balances security and capacity

*) For the delivery ex works the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU	1x8GB	1x64GB	with one CPU
Max. Memory per CPU	8/12 Modules / CPU	8x32GB	8x128GB	with one CPU
Max. Memory per System	16/24 Modules / System	512GB	2.048GB	if second CPU is configured

Memory-Speed:

Max. DDR4 memory speed depends on the memory configuration on one memory channel and the speed of the CPU

The memory channel with the lowest speed defines the speed of all CPU channels in the system

Mem. Speed provided by CPU	Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS)			
	RDIMM 2400MHz		LRDIMM 2400MHz	
	1.2V		1.2V	
Voltage setting (BIOS)	1.2V		1.2V	
	1	2	1	2
	DPC	DPC	DPC	DPC
CPU with 2400MHz DDR4 Bus	2400	2400	2400	2400
CPU with 2133MHz DDR4 Bus	2133	2133	2133	2133
CPU with 1866MHz DDR4 Bus	1866	1866	1866	1866

1R - Single Rank 4R - Quad Rank
 2R - Dual Rank 8R - Eight Rank

1DPC = 1 DIMM per Channel

2DPC = 2 DIMM per Channel

Configuration hints:

- The memory sockets on the systemboard offer a color coding:

Bank I black sockets

Bank II blue sockets

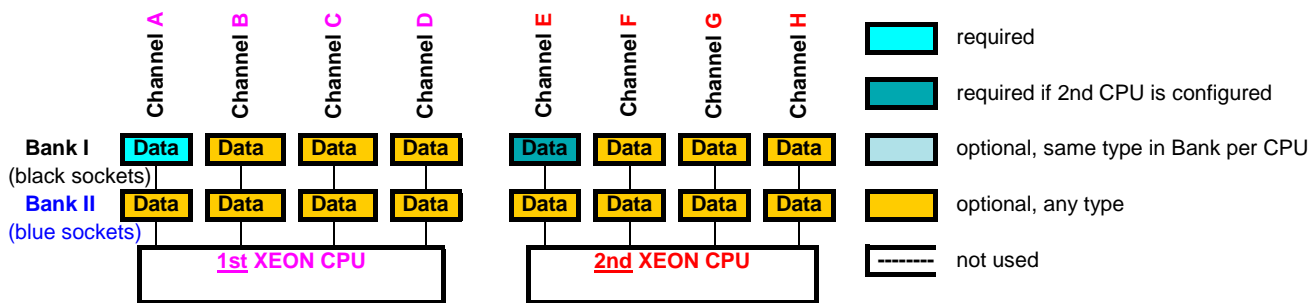
- A so called Bank consists of 1 memory module on every Channel available on one CPU (examples see below)

Bank I on CPU 1/2 up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU

Bank II on CPU 1/2 up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU

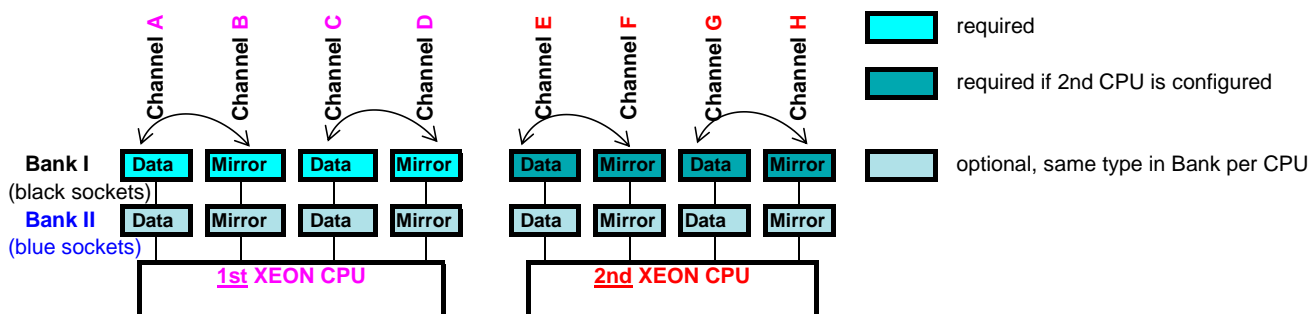
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



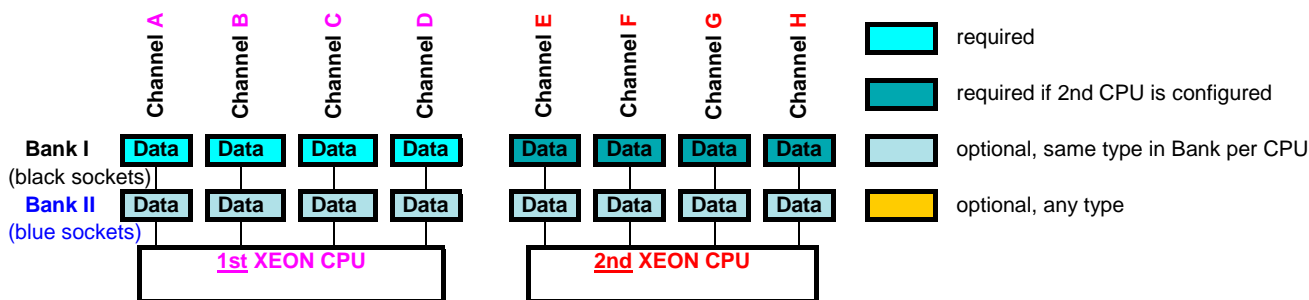
Independent Channel Mode allows all channels to be populated in any order
 Can run with differently rated DIMMs and use the settings of the slowest DIMM installed in the system

2. Mirrored Channel Mode



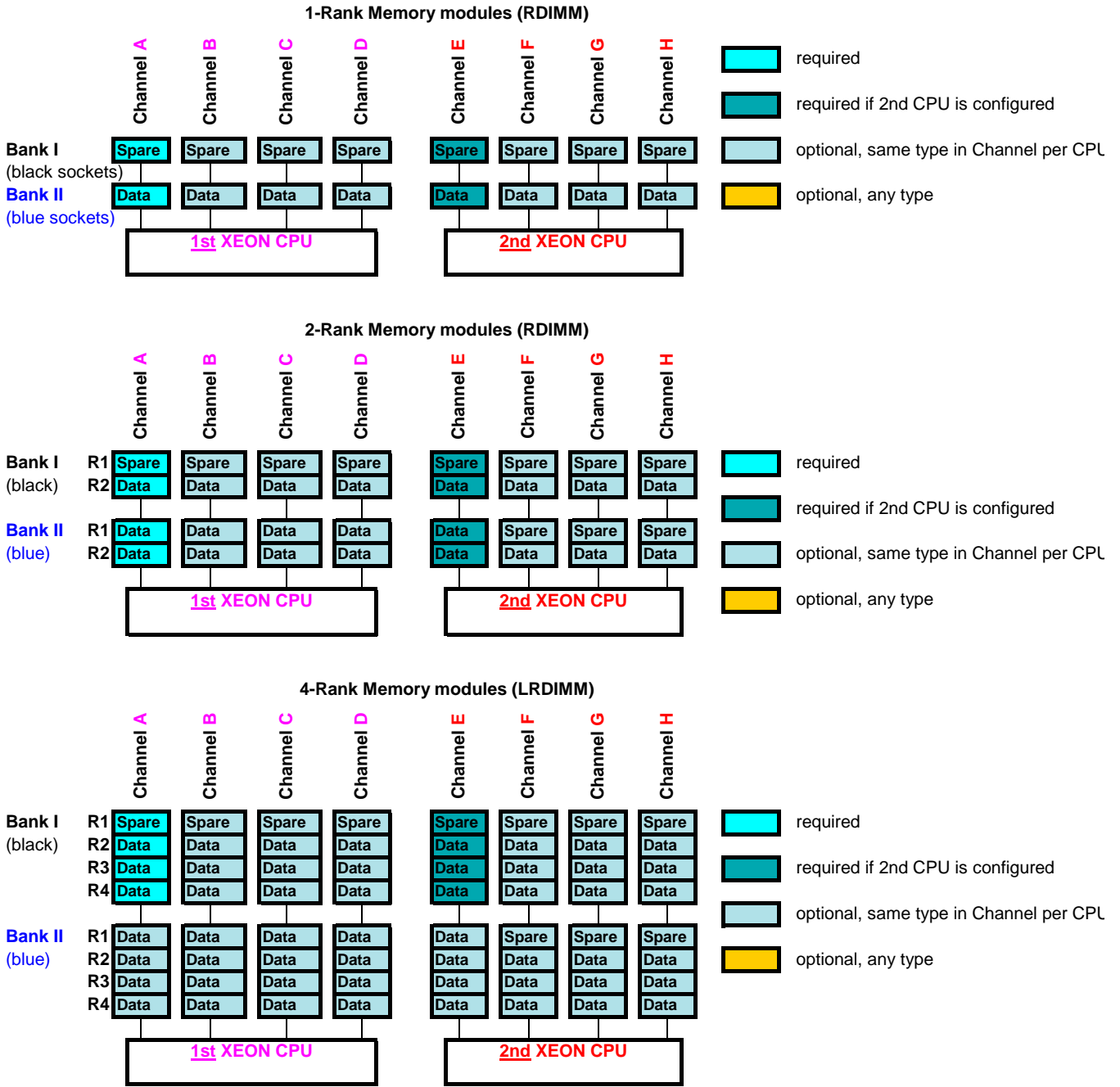
Mirrored Channel Mode requires identical modules on channel A,B, C, D (1st CPU) or channel E, F, G and H (2nd CPU)
 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
 If this mode is used, a multiple of 4 identical modules has to be ordered.

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU.
 If this mode is used, a multiple of 4 identical modules has to be ordered.

4. Rank Sparing Mode



Rank Sparing Mode requires identical modules (same capacity and technology) within the same channel. The available memory for applications will vary depending on configuration. Please refer to the spreadsheet above "Effective Memory capacity with active Rank Sparing Mode". Population rule for Rank sparing mode is to achieve max. available memory, e.g. 8 DIMMs will be spread across two channels, each with 4DPC

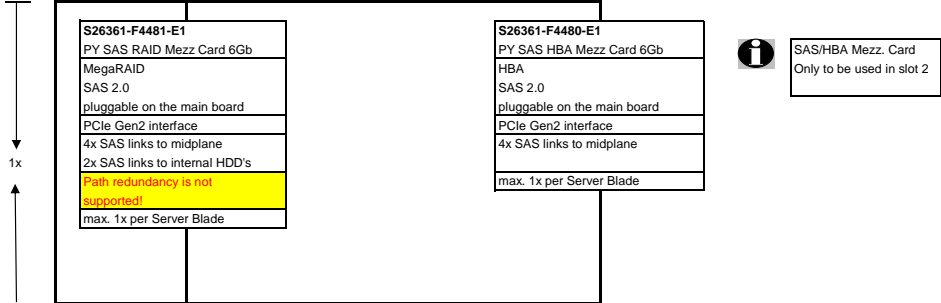
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Section XIV iRMC S4, Graphics

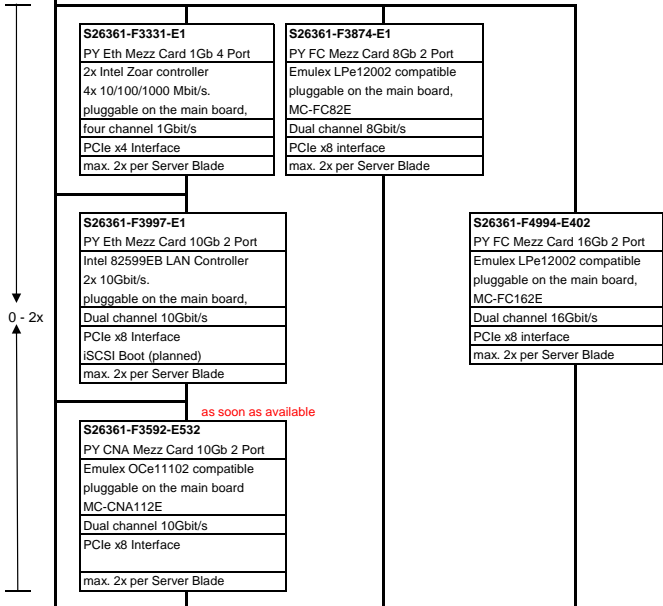
- i** Graphic Controller is part of the onboard Management Controller iRMC S4. Other graphics are not possible.
- i** The iRMC S4 advanced pack is included in the system delivery. A corresponding license order is not necessary.

Section XV Mezzanine cards for Dual Socket Server Blade

i The Dual Server Blade supports the following optional mezzanine cards. A Fibre Channel Switch / Pass-Thru blade, an Ethernet LAN Switch / Pass-Thru blade, respectively an InfiniBand switch is required in the system unit for this functionality.



- i** Requires an Ethernet LAN Switch, IBP or Pass-Thru Blade for each channel.
- i** Requires a Fibre Channel Switch for each channel.



R S T U

- i** R: see separate BX900 System Unit configurator, sheet "1 GB Ethernet"
 - S: see separate BX900 System Unit configurator, sheet "10 GB Ethernet"
 - T: see separate BX900 System Unit configurator, sheet "Fibre Channel"
 - V: see separate BX900 System Unit configurator, sheet "CB SAS"
- https://partners.is.fujitsu.com/conv/order-supply/configurators/primergy_config/current/Pages/default.aspx

Change Report

Date	Order number	Changes
2019-07-04	storage	S26361-F5737-* added
2018-10-29	storage	S26361-F5713/F5715-* added
2018-08-07	storage	S26361-F5525-E120/E800 removed (EOL) / S26361-F5710-* added
2018-03-02	storage	S26361-F5701-* added
2018-01-15	storage	F5588-E240/E480 removed (EOL) / S26361-F5694-* added
2017-11-13	storage	DWPD for PCIe-SSD modified
2017-10-19	storage	S26361-F5298-* removed (EOL)
2017-10-19	storage	S26361-F3821/F5523-* removed (EOL)
2017-08-08	storage	S26361-F5534-* removed, S26361-F5648-* added
2017-07-24	S26361-F5675-*	added
2017-06-06	storage	S26361-F5666/F5670-* added, S26361-F5588-E120/F5525-E240/E480 removed
2017-03-21	storage	S26361-F5619-* Endurance updated, S26361-F3816-E250/E500 removed
2017-03-14	S26361-F3934-E617	comment added
2017-02-07	S26361-F5619-*	added
2017-02-01	S26361-F3933-E192	released for BX2560 M2
2016-12-22	storage	S26361-F5298-E200/E160 / S26361-F3821-E100 / S26361-F5523-E32 removed
2016-12-22	S26361-F5632-*	added
2016-11-15	S26361-F3934-E617	now available
2016-10-27	S26361-F3933-E192	added
2016-08-23	S26361-F3934-E617	added
2016-08-08	S26361-F3956-E200	added
2016-07-15	S26361-F5614/F5617-*	added
2016-07-14	S26361-F5588/F5573-*	now available
2016-07-14	S26361-F5608-*	added
2016-06-16	S26361-F3552-L23	added TPM 1.2 Module
2016-02-15	S26361-F4534-E1	PY IB CX3 Mezz Card 56Gb 2 Port removed
2016-02-04		Set E5-2697A CPU to large heat sink device
2015-10-07	S26361-F3934-E614	8GB 2Rx8 Memory module added
2015-10-01		added 8GB (1x8GB) 2Rx8 DDR4-2400 R ECC
2015-08-28	S26361-Fxxxx-Exxx	added SSD Mixed use (Read/write)
2015-08-28	S26361-Fxxxx-E100/E200	added SAS 12G 7.2krpm HDD 1TB/2TB
2015-08-28	S26361-F3933-F191	added CPU Xeon E5-2697Av4 16C/32T 2.60GHz 40MB 9.6GT/s 2400MHz 145W
2015-08-14		UFM Support updated
2015-07-30		Processor page updated
2015-07-17		Memory page updated
2015-06-19	S26361-F3552-E10	TPM module V2.0 added
2015-06-16		CPU configuration possibilites updated
2015-06-11		Update of CPU and Memory definitions
2015-06-02	E5-2670v4	E5-2670v4 processor option removed
2015-05-29	*F5523*	SATADOM description changed (MTBF removed).
2015-05-20		HDD/SSD/SATADOM description update.
2015-05-20	S26361-F5550-*	SAS 10K 512n HDDs added.
2015-05-20	S26361-F5543-*	SAS 10K 512e HDDs added.
2015-01-29		E5-2600v3 CPU types removed
2015-01-14		Draft Version

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