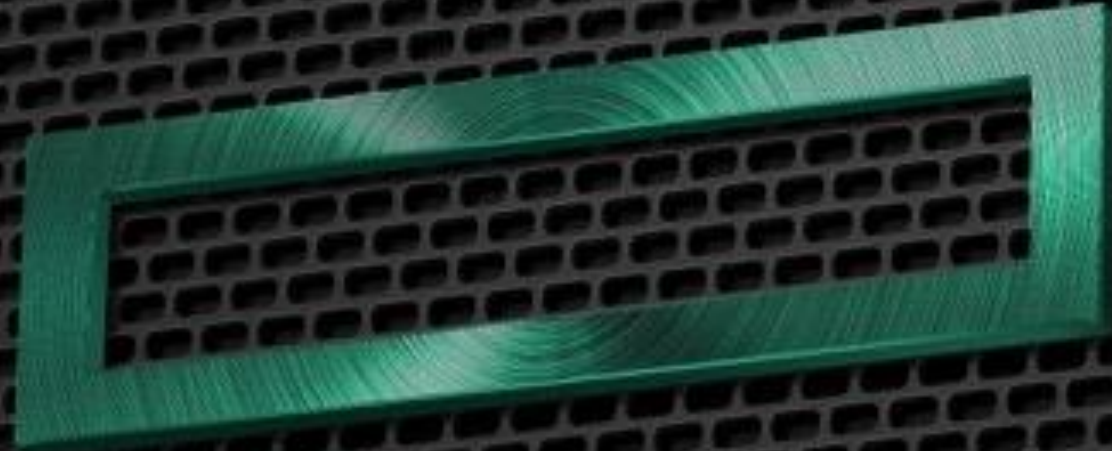




**Hewlett Packard
Enterprise**



HPE Appliance Solution for SAP Business One

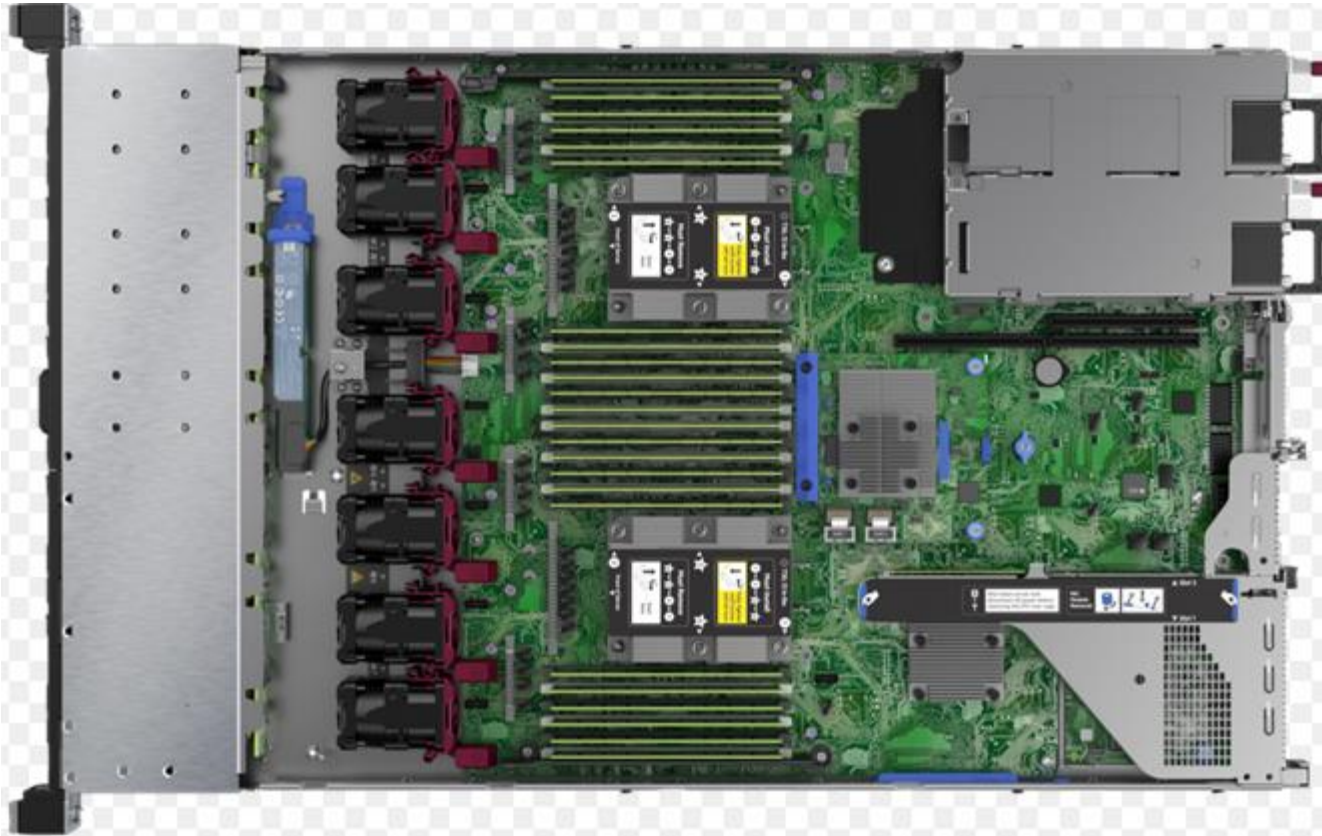
Intel® Xeon® Scalable 2nd Generation Scalable processors Cascade Lake

HPE ProLiant Gen10 DL360

Nov 2020

Version 1.4

HPE ProLiant DL360 Gen10 Server for SAP B1 Solution



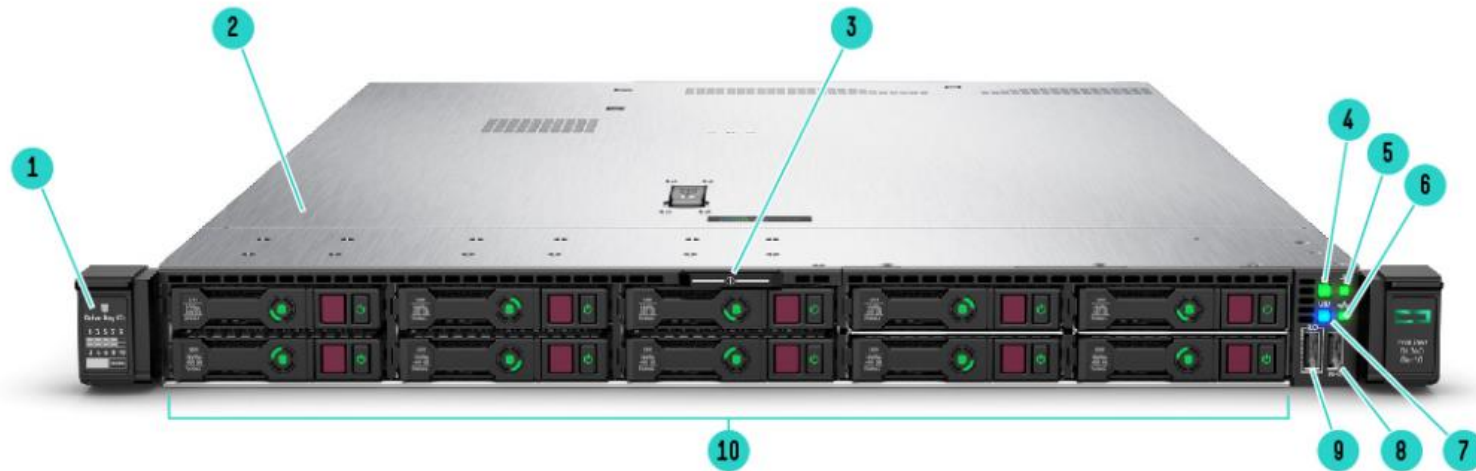
HPE ProLiant DL360 Gen 10

- ❖ The HPE ProLiant DL360 Gen10 Server supports the Intel® Xeon® Scalable Processor Family with up to 28 cores, plus 2933 MT/s HPE DDR4 SmartMemory supporting up to 3.0 TB max.
- ❖ With the added performance that HPE Persistent Memory and 10 NVMe bring, the HPE ProLiant DL360 Gen10 means business.
- ❖ Deploy this dense platform for diverse workloads in space constrained environments and maintain it with ease by automating the most essential server lifecycle management tasks with HPE OneView and HPE iLO 5

DL360 Gen10 Quick Specs: <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008159enw>

HPE ProLiant DL360 Gen10 Server for SAP B1 Solution

Overview



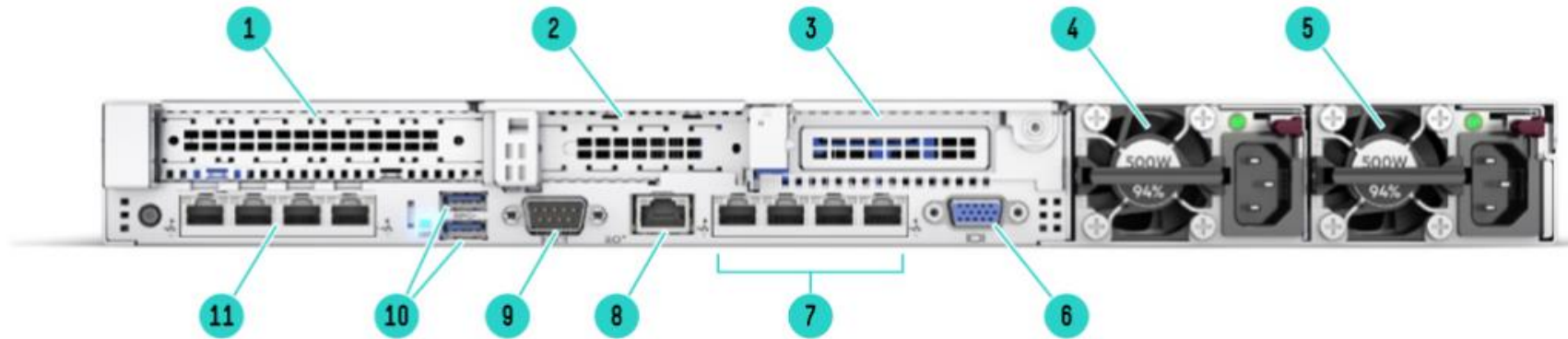
Premium 10SFF NVMe Front View

1. Drive support label
2. Quick removal access panel
3. Serial no. label pull tab
4. Power On/Standby button and system power LED
5. Health LED
6. NIC status LED
7. UID button/LED
8. USB 3.0 port
9. iLO Service Port
10. Max up to 10 NVMe drives (PCIe direct attached) or 8 SAS/SATA/NVMe + 2 NVMe

DL360 Gen10 Quick Specs: <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008159enw>

HPE ProLiant DL360 Gen10 Server for SAP B1 Solution

Overview



Rear View – Standard for all DL360 Gen10

1. Slot 1 PCIe 3.0
Option: Rear Drive +1 SFF or 1 uFF SSD (2x M.2 cartridges)¹
2. Slot 2 PCIe 3.0
3. Option: Slot 3 PCIe 3.0 (Requires 2nd processor)
4. Power Supply 2
5. Power Supply 1
6. VGA port
7. Embedded 4x 1GbE Adapter (if equipped)⁷
8. iLO Management Port
9. Option: Serial Port
10. USB 3.0 Ports
11. Option: FlexibleLOM (Shown: 4x 1GbE)¹¹

DL360 Gen10 Quick Specs: <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008159enw>

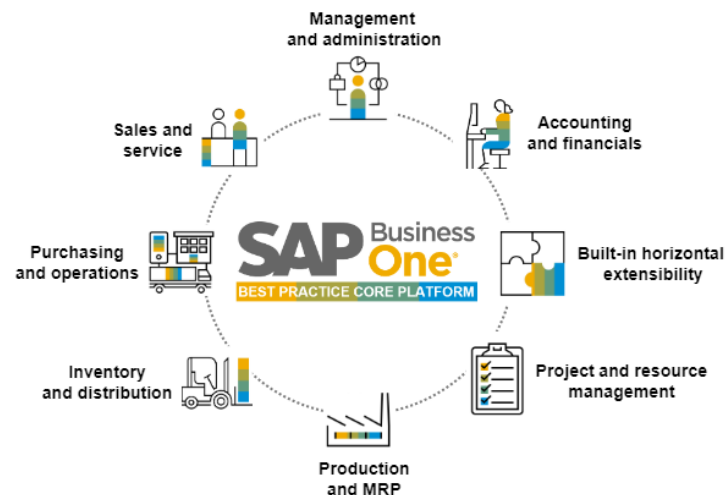
HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Solution Overview

- ❖ DL360 with SAP-B1 simplifies configuration and accelerates deployment of in-Memory technology
- ❖ DL360 with SAP-B1 provides Flexible, cost effective, pre-defined Enterprise Resource Planning solution for small to mid-sized businesses (SMB).
- ❖ Provides solution for up to 500 SAP Business One users in a 3TB DL360 Gen 10 server.
- ❖ Validated with internal storage to provide cost benefit to SMB customers. Option to connect to external storage, as the SAP HANA Database grows, is available.

SAP Business One

Digital platform for SME



Facts and figures:

- >70,000 customers
- 50 country localizations and 28 languages
- ~300 software solution partners with >500 solutions
- 850 value-added resellers implement worldwide
- Used in >170 countries
- >7,000 subsidiaries run SAP Business One

SAP Business One

The digital business



HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Certified Configuration (96 GB / 35 users) - Overview

Component	Description
Server	HPE DL360 Gen 10 Cascade Lake
CPU	2 x Intel® Xeon-Gold 5218 CPU (2.3GHz/16-core)
Memory	8 x 12 GB Quad Rank x4 DDR4-2933 : 96 GB
RAID Controller	1 x HPE Smart Array P408i-a SR Gen10
Internal Storage	3 x 400GB 12G MU SFF SSD – RAID 5 <small>(It will be replaced with 800 GB SSD, as 400GB SSD is going EOL. 800 GB SSDs have improved specs compared to 400 GB)</small>
Network	1 x HPE Ethernet 1Gb 4-port 331FLR Adapter 1 x HPE 1Gb Ethernet 4-Port 331i Adapter
Operating System	SUSE Linux Enterprise Server for SAP Applications 12 SP4
HANA DB and SAP-B1	SAP HANA 1 SPS12 Revision 122.31 (1.00.122.31), SAP B1 9.3 PL02

HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Certified Configuration (96 GB / 35 users) – Bill Of Materials

Category	HPE ProLiant DL360 Gen10 Server (Cascade Lake)	SKU	Certified Configuration = 35 users / 96 GB
			Quantity
Server	HPE ProLiant DL360 Gen10 for SAP Compute Block	R2G31B	1
CPU	HPE DL360 Gen10 Xeon-G 5218 Kit (16C, 2.3GHz)	P02592-B21	1
	HPE DL360 Gen10 Xeon-G 5218 FIO (16C, 2.3GHz)	P02592-L21	1
Memory	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	P00918-H21	12
Backplane and Riser	HPE DL360 Gen10 2SFF SAS/SATA Bkpln Kit	867966-B21	1
	HPE DL360 Gen10 SFF Internal Cable Kit	867990-B21	1
	HPE DL360 Gen10 Low Profile Riser Kit	867982-B21	1
Network	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22	1
	HPE 1Gb Ethernet 4-Port 331i	Embedded	1
RAID Controller	HPE Smart Array P408i-a SR Gen10 Ctrlr	804331-B21	1
	HPE 96W Smart Storage Battery 145mm Cbl	P01366-B21	1
Internal Storage	HPE 800GB SAS MU SFF SC DS SSD	P04527-H21	3
	HPE DL3xx Gen10 Rear Serial Cable Kit	873770-B21	1
Bezel and Rail	HPE 1U Gen10 Bezel Kit	867998-B21	1
	HPE 1U Gen10 SFF Easy Install Rail Kit	874543-B21	1
	HPE 1U CMA for Easy Install Rail Kit	734811-B21	1
SW Licenses	HPE iLO Adv 1-svr Lic 3yr Support	BD505A	1
	HPE iLO Adv Elec Lic 3yr Support	E6U64ABE	1
	SLES SAP 2Skt/1-2 VM 3yr 24x7 Flx LTU	N0U73A	1
Power Supply and Cooling	HPE DL360 Gen10 High Performance Heat Sink Kit	871246-B21	1
	HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	865414-B21	2

HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Certified Configuration (96 GB / 35 users) – Storage configuration Details

Storage Configuration

- 1 x HPE Smart Array P408i-a SR Gen10
- 3 x 400 GB 12 MU SFF SDD
 - Array A with 3 x 400 GB SSD
 - Logical Drive 1 : Operating System
 - Logical Drive 2: DATA, LOG, SHARED, USR SAP

Array A	Logical Drive 1	Volumes	256 GB	RAID 5
	Logical Drive 2	LV-LOG	48 GB	RAID 5
		LV-DATA	288 GB	
		LV-SHARED	96 GB	
		LV-USRSAP	50 GB	



HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Cascade Lake - Appliance Environment Details

B1 Users	Memory	Memory DIMMs	CPU	Storage	
35	96 GB	12 * 8 GB	2 * Intel Xeon-S 4214 or higher	3 * 800 GB SAS SSD – RAID 5	OS: SLES 12 SP4 or later HANA DB: HANA 1.0 SP12 or later SAP-B1: 9.3 PL02 or later
75	192 GB	12 * 16 GB	2 * Intel Xeon-S 4214 or higher	3 * 800 GB SAS SSD – RAID 5	
150	384 GB	12 * 32 GB	2 * Intel Xeon-S 4214 or higher	5 * 800 GB SAS SSD – RAID 5	
250	768 GB	12 * 64 GB	2 * Intel Xeon-G 5218 or higher	7 * 800 GB SAS SSD – RAID 5	
350	1.5 TB	12 * 128 GB	2 * Intel Xeon-G 5218 or higher	6 * 1.6 TB SAS SSD – RAID 5	
500	3.0 TB	24 * 128 GB	2 * Intel Xeon- P 8276L	9 * 1.6 TB SAS SSD – RAID 5	

Note: The above table shows one instance of fulfilling the listed configuration's needs. There will be multiple ways to fulfil a configuration needs based on size of memory, CPU type, size of SSD disks and so on. Refer to the Appliance Bill of Materials to learn more.



HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Cascade Lake – Appliance Bill of Materials

Category	HPE ProLiant DL360 Gen10 Server (Cascade Lake)	Max Users / SKU	35 Users	75 Users	150 Users	250 Users	350 Users	500 Users
			96 GB	192 GB	384 GB	768 GB	1536 GB	3072 GB
Server	HPE ProLiant DL360 Gen10 for SAP Compute Block	R2G31B	1	1	1	1	1	1
CPU Option 1	HPE DL360 Gen10 Xeon-S 4214 Kit (12C, 2.2GHz, 85W)	P02580-B21	1	1	1	-	-	-
	HPE DL360 Gen10 Xeon-S 4214 FIO Kit (12C, 2.2GHz, 85W)	P02580-L21	1	1	1	-	-	-
CPU Option 2	HPE DL360 Gen10 Xeon-G 5218 Kit (16C, 2.3GHz, 125W)	P02592-B21	1	1	1	1	1	-
	HPE DL360 Gen10 Xeon-G 5218 FIO (16C, 2.3GHz, 125W)	P02592-L21	1	1	1	1	1	-
CPU Option 3	HPE DL360 Gen10 Xeon-P 8276L Kit (28C, 2.2GHz, 165W)	P02715-B21	1	1	1	1	1	1
	HPE DL360 Gen10 Xeon-P 8276L FIO Kit (28C, 2.2GHz, 165W)	P02715-L21	1	1	1	1	1	1
Memory Option 1	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	P00918-H21	12	24	-	-	-	-
Memory Option 2	HPE 16GB 2Rx8 PC4-2933Y-R Smart Kit	P00922-H21	-	12	24	-	-	-
Memory Option 3	HPE 32GB 2Rx4 PC4-2933Y-R Smart Kit	P00924-H21	-	-	12	24	-	-
Memory Option 4	HPE 64GB 2Rx4 PC4-2933Y-R Smart Kit	P00930-H21	-	-	-	12	24	-
Memory Option 5	HPE 128GB 4Rx4 PC4-2933Y-L Smart Kit	P11040-H21	-	-	-	-	12	24
	HPE DL360 Gen10 2SFF SAS/SATA Bkpln Kit	867966-B21	1	1	1	1	1	1
	HPE Ethernet 10Gb 2-port 562SFP+ Adptr	727055-B21	1	1	1	1	1	1
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ FlexLOM Adapter	727054-B21	1	1	1	1	1	1
	HPE 1U Gen10 Bezel Kit	867998-B21	1	1	1	1	1	1
	HPE 1U Gen10 SFF Easy Install Rail Kit	874543-B21	1	1	1	1	1	1
	HPE DL3xx Gen10 Rear Serial Cable Kit	873770-B21	1	1	1	1	1	1
	HPE 1U CMA for Easy Install Rail Kit	734811-B21	1	1	1	1	1	1
	HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	865414-B21	2	2	2	2	2	2
	HPE iLO Adv 1-svr Lic 3yr Support	BD505A	1	1	1	1	1	1
	HPE iLO Adv Elec Lic 3yr Support	E6U64ABE	1	1	1	1	1	1
	SLES SAP 2Skt/1-2 VM 3yr 24x7 Flx LTU	NOU73A	1	1	1	1	1	1
	SLES SAP 2Skt/1-2 VM 5yr 24x7 Flx LTU	NOU75A	1	1	1	1	1	1
RAID Controller	HPE Smart Array P408i-a SR Gen10 Ctrlr	804331-B21	1	1	1	-	-	-
Option 1 and Option 2	HPE Smart Array P816i-a SR Gen10 Ctrlr	804338-B21	1	1	1	1	1	1
	HPE 96W Smart Storage Battery 145mm Cbl	P01366-B21	1	1	1	1	1	1
Internal Storage Options 1 and 2	HPE 800GB SAS MU SFF SC DS SSD	P04527-H21	3	3	5	7	-	-
	HPE 1.6 TB SAS MU SFF SC DS SSD	P04533-B21	3	3	3	4	6	9
	HPE DL360 Gen10 High Performance Heat Sink Kit	871246-B21	1	1	1	1	1	1

> Any one CPU type allowed within the DL360 server.

> For storage, any one type is allowed. No mix of storage types allowed.

HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Cascade Lake – TDI with SSD storage

B1 Users	Memory	Memory DIMMs	CPU	Storage	
35	96 GB	12 * 8 GB	2 * Intel Xeon-S 4214 or higher	3 * 800 GB SAS SSD – RAID 5	OS: SLES 12 SP4 or later HANA DB: HANA 1.0 SP12 or later SAP-B1: 9.3 PL02 or later
75	192 GB	12 * 16 GB	2 * Intel Xeon-S 4214 or higher	3 * 800 GB SAS SSD – RAID 5	
150	384 GB	12 * 32 GB	2 * Intel Xeon-S 4214 or higher	4 * 800 GB SAS SSD – RAID 5	
250	768 GB	12 * 64 GB	2 * Intel Xeon-G 5218 or higher	5 * 800 GB SAS SSD – RAID 5	
350	1.5 TB	12 * 128 GB	2 * Intel Xeon-G 5218 or higher	7 * 800 GB SAS SSD – RAID5	
500	3.0 TB	24 * 128 GB	2 * Intel Xeon- P 8276L	9 * 800 GB SAS SSD – RAID5	

Note: The above table shows one instance of fulfilling the listed configuration's needs. There will be multiple ways to fulfil a configuration needs based on size of memory, CPU type, size of SSD disks and so on. Refer to the TDI Bill of Materials to learn more.



HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Cascade Lake – TDI with HDD storage

B1 Users	Memory	Memory DIMMs	CPU	Storage	
35	96 GB	12 * 8 GB	2 * Intel Xeon-S 4214 or higher	6 * 600 GB SAS HDD – RAID 5	OS: SLES 12 SP4 or later HANA DB: HANA 1.0 SP12 or later SAP-B1: 9.3 PL02 or later
75	192 GB	12 * 16 GB	2 * Intel Xeon-S 4214 or higher	6 * 600 GB SAS HDD – RAID 5	
150	384 GB	12 * 32 GB	2 * Intel Xeon-S 4214 or higher	6 * 600 GB SAS HDD – RAID 5	
250	768 GB	12 * 64 GB	2 * Intel Xeon-G 5218 or higher	6 * 600 GB SAS HDD – RAID 5	
350	1.5 TB	12 * 128 GB	2 * Intel Xeon-G 5218 or higher	8 * 600 GB SAS HDD – RAID5	
500	3.0 TB	24 * 128 GB	2 * Intel Xeon- P 8276L	6 * 1.2 TB SAS HDD – RAID5	

Note: The above table shows one instance of fulfilling the listed configuration's needs. There will be multiple ways to fulfil a configuration needs based on size of memory, CPU type, size of SSD disks and so on. Refer to the TDI Bill of Materials to learn more.



HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

Cascade Lake – TDI Bill of Materials

Category	HPE ProLiant DL360 Gen10 Server (Cascade Lake)	Max Users / SKU	35 Users	75 Users	150 Users	250 Users	350 Users	500 Users
			96 GB	192 GB	384 GB	768 GB	1536 GB	3072 GB
Server	HPE ProLiant DL360 Gen10 for SAP Compute Block	R2G31B	1	1	1	1	1	1
CPU Option 1	HPE DL360 Gen10 Xeon-S 4214 Kit (12C, 2.2GHz, 85W)	P02580-B21	1	1	1	-	-	-
	HPE DL360 Gen10 Xeon-S 4214 FIO Kit (12C, 2.2GHz, 85W)	P02580-L21	1	1	1	-	-	-
CPU Option 2	HPE DL360 Gen10 Xeon-G 5218 Kit (16C, 2.3GHz, 125W)	P02592-B21	1	1	1	1	1	-
	HPE DL360 Gen10 Xeon-G 5218 FIO (16C, 2.3GHz, 125W)	P02592-L21	1	1	1	1	1	-
CPU Option 3	HPE DL360 Gen10 Xeon-P 8276L Kit (28C, 2.2GHz, 165W)	P02715-B21	1	1	1	1	1	1
	HPE DL360 Gen10 Xeon-P 8276L FIO Kit (28C, 2.2GHz, 165W)	P02715-L21	1	1	1	1	1	1
Memory Option 1	HPE 8GB 1Rx8 PC4-2933Y-R Smart Kit	P00918-H21	12	24	-	-	-	-
Memory Option 2	HPE 16GB 2Rx8 PC4-2933Y-R Smart Kit	P00922-H21	-	12	24	-	-	-
Memory Option 3	HPE 32GB 2Rx4 PC4-2933Y-R Smart Kit	P00924-H21	-	-	12	24	-	-
Memory Option 4	HPE 64GB 2Rx4 PC4-2933Y-R Smart Kit	P00930-H21	-	-	-	12	24	-
Memory Option 5	HPE 128GB 4Rx4 PC4-2933Y-L Smart Kit	P11040-H21	-	-	-	-	12	24
	HPE DL360 Gen10 2SFF SAS/SATA Bkpln Kit	867966-B21	1	1	1	1	1	1
	HPE Ethernet 10Gb 2-port 562SFP+ Adptr	727055-B21	1	1	1	1	1	1
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ FlexLOM Adapter	727054-B21	1	1	1	1	1	1
	HPE 1U Gen10 Bezel Kit	867998-B21	1	1	1	1	1	1
	HPE 1U Gen10 SFF Easy Install Rail Kit	874543-B21	1	1	1	1	1	1
	HPE DL3xx Gen10 Rear Serial Cable Kit	873770-B21	1	1	1	1	1	1
	HPE 1U CMA for Easy Install Rail Kit	734811-B21	1	1	1	1	1	1
	HPE 800W FS Plat Ht Plg LH Pwr Sply Kit	865414-B21	2	2	2	2	2	2
	HPE iLO Adv 1-svr Lic 3yr Support	BD505A	1	1	1	1	1	1
	HPE iLO Adv Elec Lic 3yr Support	E6U64ABE	1	1	1	1	1	1
	SLES SAP 2Skt/1-2 VM 3yr 24x7 Flx LTU	N0U73A	1	1	1	1	1	1
	SLES SAP 2Skt/1-2 VM 5yr 24x7 Flx LTU	N0U75A	1	1	1	1	1	1
RAID Controller Option 1 and Option 2	HPE Smart Array P408i-a SR Gen10 Ctrlr	804331-B21	1	1	1	-	-	-
	HPE Smart Array P816i-a SR Gen10 Ctrlr	804338-B21	1	1	1	1	1	1
	HPE 96W Smart Storage Battery 145mm Cbl	P01366-B21	1	1	1	1	1	1
Internal Storage Options 1 to 4 (Options 3 and 4, with HDD, added for TDI)	HPE 800GB SAS MU SFF SC DS SSD	P04527-H21	3	3	4	5	7	9
	HPE 1.6 TB SAS MU SFF SC DS SSD	P04533-B21	3	3	3	3	4	5
	HPE 600GB SAS 12G 10K SFF SC DS HDD	872477-H21	6	6	6	6	8	-
	HPE 1.2TB SAS 12G 10K SFF SC DS HDD	872479-H21	6	6	6	6	6	6
	HPE DL360 Gen10 High Performance Heat Sink Kit	871246-B21	1	1	1	1	1	1

> Any one CPU type allowed within the DL360 server.

> For storage, any one type is allowed. No mix of storage types allowed.

HPE PROLIANT DL360 GEN10 SERVER FOR SAP B1 SOLUTION

References

- Refer to the HPE ProLiant DL360 Gen10 Quick Specs:
 - <https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=a00008159enw>
- Refer to the HPE ProLiant DL380 Gen10 Quick Specs :
 - <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00008180enus>
- Refer to the HPE Solutions for SAP HANA Quick Specs :
 - <https://www.hpe.com/us/en/pdfViewer.html?docId=c04551209&parentPage=/us/en/solutions/sap-hana&resourceTitle=HPE+Solutions+for+SAP+HANA>
- Refer to the Solution Architecture White Paper :
 - <https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a50000215enw>
- Refer to the SAP HANA TDI Storage Requirements :
 - <https://www.sap.com/documents/2015/03/74cdb554-5a7c-0010-82c7-eda71af511fa.html>



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Thank you