



**PRIMERGY RX2530 M6
1U Rack Server
Configurator for base units**

Type	Front Drives	Rear Drives
1	4x 3.5" hot plug SAS/SATA HDD/SSD drives	none
2	8x 2.5" hot plug SAS/SATA HDD/SSD drives	2x 2.5" SAS/SATA
3	10x 2.5" hot plug SAS/SATA HDD/SSD and PCIe SSD drives	2x 2.5" SAS/SATA
4	32x EDSFF hot PCIe SSD drives	none



Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator, abbreviations
	Description	System Description for easier understanding
1	Base	describes base unit of RX2530 M6
2		describes rack mount kits and services
3	CPU	Order code and Infos of processors
4	RAM	DDR4 System memory (RAM) and memory modes
	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors and other graphics options
5		
6	HD_cage	n.a. - not required for PRIMERGY RX2530
7	RAID	SAS / RAID Controller and components
8	ODD	optical disk drives (DVD, DVD-rw, Blu ray)
10	HD_SSD	Storage drives - PCIe SSD - SAS/SATA SSD & HDD
11		LAN Components
12	LAN_FC_IB	Fibre Channel Controller
13		Infiniband Controller
14	PSU	Power supply units, power cables, country specific opt.
15	USB_devices	Keyboards, Mice, USB devices
16	Energy Star	Energy Star configuration
17	Erp Lot9 restriction	Ero Lot9 configuration
18	Thermal Rule	Thermal restriction
19	others	System Management, ATD, RS232 port, TPM module

Instructions

This document contains basic product and configuration information supporting you in more complicated configurations.

In any case we recommend to use the WebArchitect to make sure, that you configure a valid system.

This System configurator is divided into several chapters. They are identical to the current price list and WebArchitect.

Please follow this document step by step from the top to the bottom.

Chapter xx - description of chapter

Text fields with grey color offer extra information for related topics (e.g prerequisites, technical background, configuration rules, limitations, ...)

Conventional order code

S26361-F4610-E2
S26361-F4610-L3
PLAN 2x1Gb Ethern. Controller
i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors
PCIe Gen2 x4 full height card
max. 6x per system

<-- order code E-part (bold) --
 <-- order code L-part (bold)
 <-- "name" of this part

 <--description of this part, in same cases as well description of content

 <--requires a free PCIe slot --> means total amount of PCIe slots reduced
 <--indicates how many this part can be configured in the related Server

New order code

PYBVAP04
PY-VAP04
Front VGA connector (15-pin)
Front VGA connector (15-pin) including cable and front connector
Not for 10x3.5", 32xEDSFF Base unit
max. 1x per system

<-- "PYB" order code (bold) for BTO(Built to Order) part
 <-- "PY-" order code (bold) for Loose delivery part
 <-- "name" of this part
 <--description of this part, in same cases as well description of content

 <-- Limitation for this part
 <--indicates how many this part can be configured in the related Server

For further information see:

Link to datasheet:

<https://sp.ts.fujitsu.com/dmsp/Publications/public/ds-py-rx2530-m6.pdf>

<https://www.fujitsu.com/fts/products/computing/servers/primergy/index.h>
(internet)

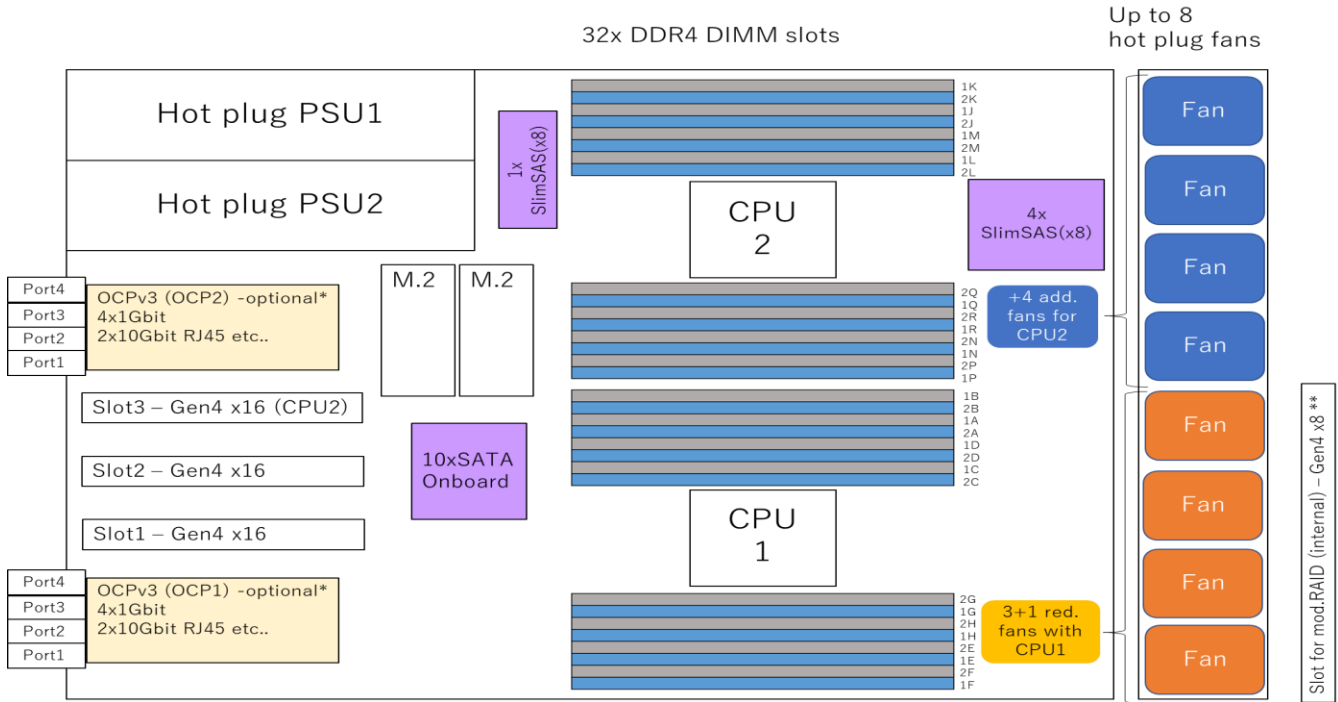
<https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx>
(extranet)

Fujitsu is providing the content of this document with very high accuracy. In case you identify a mistake, we would kindly encourage you to inform us. We kindly ask for understanding, that errors still may occur and that Fujitsu may change this document without notice

Abbreviations

SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6GBit/s; SAS3.0 = 12GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage device), 2.5" (SFF)
SFF	Drives	small form factor (=2.5")
LFF	Drives	large form factor (=3.5")
CPU	Processor	central processing unit ("processor")
RAID	Drives, RAID	RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare
Spaces	OS	Microsoft spaces, optimized in Win2012 R2 offers software RAID and storage tiering
vSAN	OS	
storage tiering	RAID	offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")
hot data	Drives	Data which are currently being processed
cold data	Drives	Data which are currently not processed (only stored)
ODD	Drives	optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)
OS	operating system	OS=operating system - required for running, organize and administrating the server
E-Part	"Einbau-Part"	"e.g. S26361-F1234- <u>E</u> 240" ordercode with "E" means it is either integrated into to Server (CPU, Mem, ..) or integrated in the shipping box (Keyboard, Mouse, ..)
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234- <u>L</u> 240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

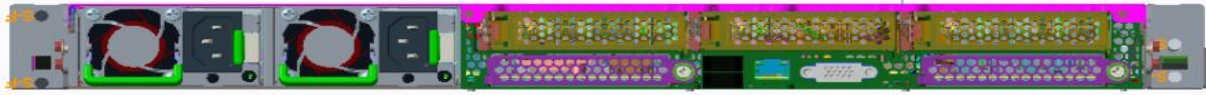
PRIMERGY RX2530 M6: Schematics of the System board and fans



*:For the available options, please see the "Chapter 11".

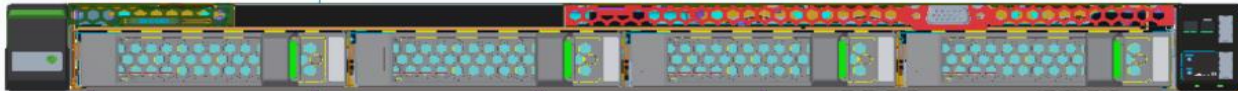
**.:Not available for 4x 3.5" bays and 32x EDSFF base units and short depth base unit

PRIMERGY RX2530 M6 rear view with PSU, PCIe slots and OCPv3 slot

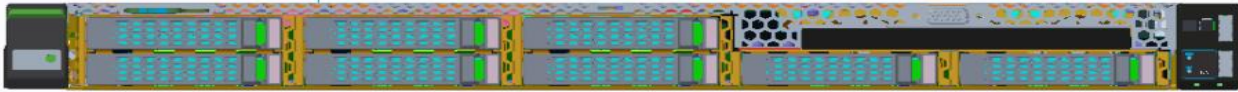


PRIMERGY RX2530 M6 front view with drives and operation panel

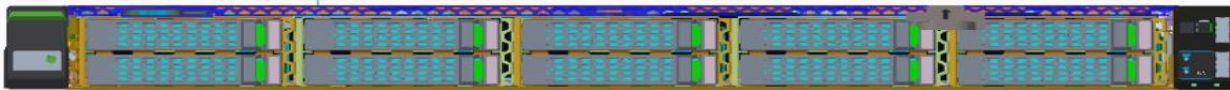
4x 3.5"



8x 2.5"



10x 2.5"



32x EDSFF



recommended components for RX2530 M6	#
Independant Mode installation	1x
PLAN CP I350-T4 4X 1000BASE-T OCPv3	1x
iRMC S5 advanced pack	1x
embedded Lifecycle Management (eLCM)	1x
Modular PSU 900W platinum hot plug	2x

Start

Power supply units & cooling

The PRIMERGY RX2530 M6 offers bays for 1x or 2x direct attached hot plug (opt. redundant) power supply units of 500W, 900W and 1600W with up to 96% efficiency. The PRIMERGY RX2530 M6 comes equipped with ultimate performance processor heat pipes and 3+1 (1CPU) or 7+1 (2 CPU) high performance hot plug fans (3+1 or 7+1 redundant).

Server Management

iRMC S5 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls you can easily highlight failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.

Platform

Fujitsu Systemboard D3890-A (D3890-B for PFR base unit) based on Chipset Intel® C621A (Lewisburg).

> 4 serial UPI(Intel® Ultra Path Interconnect)links

> Up to two Intel® Xeon® Processor Scalable Family CPUs (Ice Lake)

Slots: per default, 4 PCIe slots are on Board - please see schematics in "description"

> 3 PCIe slots low profile, 167mm length @ first CPU:

Internal RAID slot PCIe-Gen4 x8 - only for modular RAID/SAS controller

Slot 1 PCIe-Gen4 x16

Slot 2 PCIe-Gen4 x16

> 1 PCIe slot low profile, 167mm length @ second CPU:

Slot 3 PCIe-Gen4 x16

PCIe controller population has to be according to internal or external connectivity requirements.

The system offers 1x internal x8 PCIe slot for SAS / RAID controllers and 3x freely configurable PCIe slots x16 for other PCIe controllers.

The required riser cards for the above configuration are part of the standard delivery.

Onboard RAID 0/1 6Gbit/s

available for up to 10x 2.5" SATA drives

System RAM up to DDR4-3200 MHz

32x DDR4 RDIMMs (16 per CPU) or alternatively a mixture of 16 DIMMs and 16x DCPMM modules.

Memory speed depends on CPU and configuration, please see folder "CPU" and "RAM" for further details.

LAN

optional OCPv3 cards are available

Software

* ServerView Suite Software incl. ServerStart, ServerBooks, Management Software and Updates

Connectivity

Interfaces at rear side

- 1 service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 2x USB 3.0 UHCI
- 1x serial 16550 interface
- Slot for interface OCPv3 cards up to 4 LAN ports

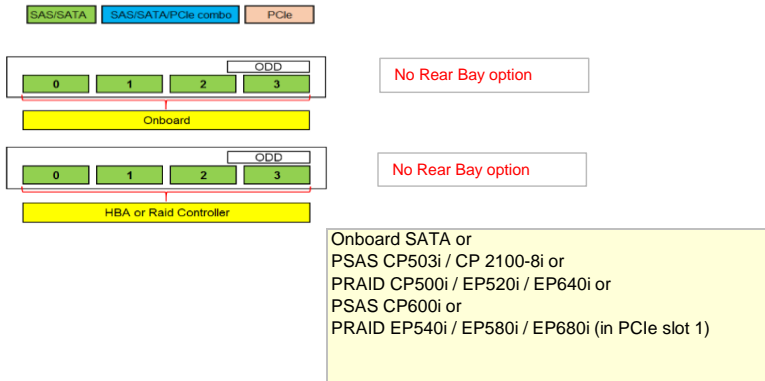
Interfaces at front

for base units with up to 8 HDD: 2x USB 3.0 and front VGA option
for base units with 10 HDD, 32 EDSFF: 2x USB3.0, no front VGA option

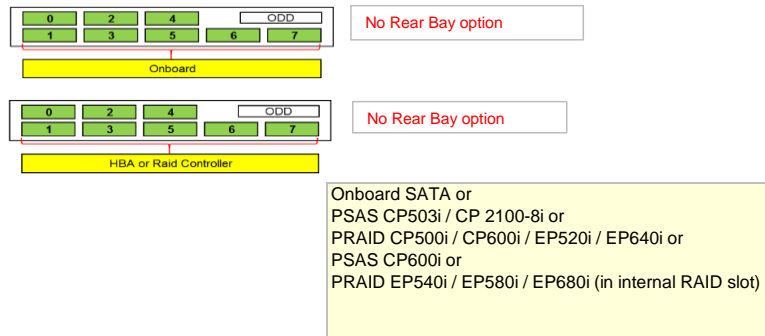
Interfaces internal

- 1x USB 3.0,
- 2x M.2
- 2x 4" SATA 6G

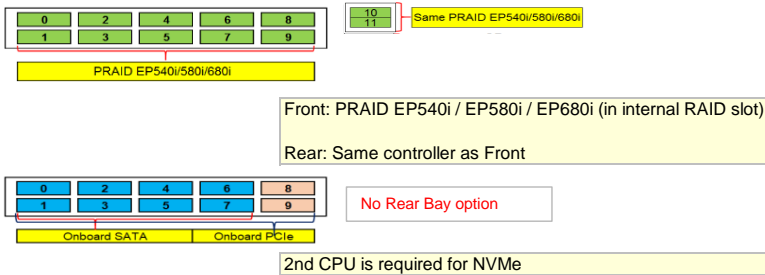
Rack version for 19" racks with 1 height unit	
No PSU included in base unit	
Basic unit is without CPU and Memory	
For an orderable basic unit first CPU and one memory = first memory has to be selected	
Basic unit LFF with	
4x 3.5" HDD bays	PYR2536R3N
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	



Basic units SFF with	
8x 2.5" HDD bays	PYR2536R2N
8x 2.5" HDD bays with PFR function	PYR2536RCN
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	



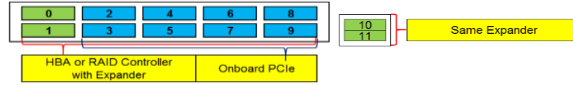
Basic units SFF with	
10x 2.5" HDD bays	PYR2536RAN
Without SAS Expander	
[Limitation] Refer to Chapter18-Thermal Rule	



Basic units SFF with
 10x 2.5" HDD bays
 Including SAS Expander

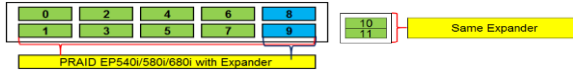
PYR2536RBN

[Limitation]
 Refer to Chapter18-Thermal Rule



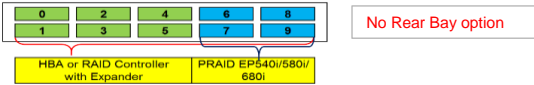
Front 10x SAS/SATA: PSAS CP503i / CP 2100-8i or
 PRAID CP500i / EP520i / EP640i or
 PSAS CP600i or
 PRAID EP540i / EP580i / EP680i (in internal RAID slot)

Front 8x NVMe: Onboard PCIe
 Rear: Same controller as Front
 2nd CPU is required for NVMe



Front 10x SAS/SATA: PRAID EP540i / EP580i / EP680i **NVMe** (in internal RAID slot)
 NVMe type of RAID controller is required

Front 2x NVMe: Same controller
 Rear: Same controller as Front



Front 10x SAS/SATA: PSAS CP503i / CP 2100-8i or
 PRAID CP500i / EP520i / EP640i or
 PSAS CP600i or
 PRAID EP540i / EP580i / EP680i (in internal RAID slot)

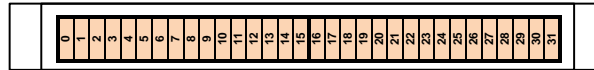
Front 4x NVMe: PRAID EP540i / EP580i / EP680i **NVMe** (in PCIe slot 1)
 NVMe type of RAID controller is required for 2nd card.

Basic units EDSFF with
 32x EDSFF NVMe bays
 No rear bay option
 2nd CPU is required

EOL in June/2023

PYR2536R6N

[Limitation]
 Refer to Chapter18-Thermal Rule



Onboard PCIe with PCI Switch

No Rear Bay option

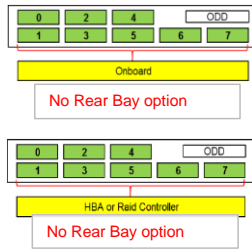
2nd CPU is required

short depth model

Basic units SFF with
 8x 2.5" HDD bays **PYR2536RDN**
 8x 2.5" HDD bays with PFR function **PYR2536RFN**

No Rear Bay option possible.

[Limitation]
 Refer to Chapter18-Thermal Rule



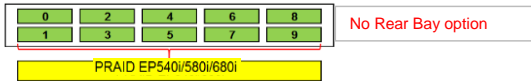
Onboard SATA or
 PSAS CP503i / CP 2100-8i or
 PRAID CP500i / EP520i / EP640i or
 PSAS CP600i or
 PRAID EP540i / EP580i / EP680i (in PCIe slot 1)

short depth model

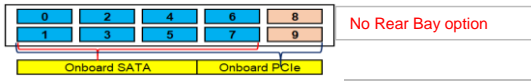
Basic units SFF with
 10x 2.5" HDD bays **PYR2536REN**

No Rear Bay option possible.

[Limitation]
 Refer to Chapter18-Thermal Rule



PRAID EP540i / EP580i / EP680i
 (in PCIe slot 1)



2nd CPU is required for NVMe

Standrad Rear
 Default

Upgrade kit of Rear 2x 2.5" bays for SATA HDD/SSD
PYBBA22S3
 max 1x for system
 Base Unit:
 10x 2.5" without SAS Exp.
 10x 2.5" with SAS Exp.

Refer to Chapter6 for detail.
 Not Available with Full height riser card kit

Liquid Cooling Kit
PYBRL06
 max 1x for system
 Base Unit: All base unit

Special Release

Full height riser card kit
PYBPRE633
PY-PRE633
 Offers 1x FH Gen 4 PCIe slots: 1" x16 for full height PCIe cards with max. 167mm length
 will be inserted into Slot 3 PCIe 4.0 x16 instead of Slot 2 and Slot 3.
 max 1x for system
 Base Unit: All base unit

Not Available with Rear 2x2.5" bays

Low profile riser card for slot 2 and 3 will not be delivered with base unit if Full height riser card kit will be configured.

PRIMECENTER Rack

Chapter 2 - Rack architecture

PRIMECENTER Rack

Rack Architecture		Remark			
No RMK	1x	Only with loose server order	S26361-F2735-E111	n/a	no mounting in rack
Rack Mount Kit	1x	Telescopic drop-in rail for server w/max. 2U	PYBRR0B	PY-RR0B	precondition
Rack Mount Kit, slide-in rail	1x	Slide-in rail for server w/max. 2U	PYBRRS8S	PY-RRS8S	*CMA is not supported.
Rack Mount Kit for short depth	1x	Telescopic drop-in rail	PYBRRL7	PY-RRL7	*will be available in May 2023
Rack Mount Kit for short depth, no CMA supported	1x	Telescopic drop-in rail	PYBRRL8	PY-RRL8	*will be available in May 2023
Rack Mount Kit, Slide-in rail for short depth	1x	Slide-in rail	PYBRRS9S	PY-RRS9S	*will be available in May 2023 *CMA is not supported.
Rack Cable Arm 1U (for standard models)	1x	Cable mgmt. arm for 1U or higher	PYBRA06	PY-RA06	No possible together with 1600W PSU HVDC.
Rack Cable Arm 1U (for short depth models)	1x	Cable mgmt. arm for 1U server	S26361-F2735-E81	S26361-F2735-L81	No possible together with 1600W PSU HVDC.
Rack installation ex works	1x	Rack will be delivered completely premounted and tested ex factory	SNP:SY-F1647E301-P	n/a	to be ordered 1x per installed rack server

B

Chapter 3 - CPU

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
 >> All processors have to be the same type.
 >> With **one** processor 1x OCPv3, iRMC, 2x PCIe low profile slots, Internal RAID card slot(except for 4x3.5" base unit) and 16x DIMM slots are available
 >> With **two** processors all 32x DIMM slots, 2xOCPv3, 3x PCIe low profile slots, Internal RAID card slot(except for 4x3.5" base unit)are available.
 >> To configure 2nd CPU an additional cooler kit is required.
 * HT = Hyper Threading

** Liquid cooling is required.

			CPU Group for Thermal condition	
			4x3.5" / 8x2.5" / 10x2.5"	32xEDSFF
Xeon Silver 43xx No Barlow pass support				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 10.4 GT/s				
Xeon Silver 4309Y 8C 2.8GHz 105W, Speed Select feature	PYBCP62XG	PY-CP62XG	A	A
Xeon Silver 4310 12C 2.1GHz 120W	PYBCP62XH	PY-CP62XH	A	A
Xeon Silver 4316 20C 2.3GHz 150W	PYBCP62XK	PY-CP62XK	B	B
Xeon Silver 43xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 10.4 GT/s				
Xeon Silver 4314 16C 2.4GHz 135W	PYBCP62XJ	PY-CP62XJ	A	A
Xeon Gold 53xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 5318Y 8C 2.1GHz 165W, Speed Select feature	PYBCP62XP	PY-CP62XP	C	E
Xeon Gold 5320 26C 2.2GHz 185W	PYBCP62XQ	PY-CP62XQ	C	F
Xeon Gold 53xx - Optimized Performance				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 5315Y 8C 3.2GHz 140W, Speed Select feature	PYBCP62XL	PY-CP62XL	B	B
Xeon Gold 5317 12C 3.0GHz 150W	PYBCP62XM	PY-CP62XM	B	B
Xeon Gold 63xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 / 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6336Y 24C 2.4GHz 185W, Speed Select feature	PYBCP62XV	PY-CP62XV	C	F
Xeon Gold 6330 28C 2.0GHz 205W	PYBCP62X3	PY-CP62X3	C	F
Xeon Gold 6338 32C 2.0GHz 205W	PYBCP62X4	PY-CP62X4	C	F
Xeon Gold 63xx - Optimized Performance				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6326 16C 2.9GHz 185W	PYBCP62XT	PY-CP62XT	C	F
Xeon Gold 6334 8C 3.6GHz 165W	PYBCP62XU	PY-CP62XU	D	F
Xeon Gold 6346 16C 3.1GHz 205W	PYBCP62X5	PY-CP62X5	D	F
Xeon Gold 6354 18C 3.0GHz 205W	PYBCP62X7	PY-CP62X7	D	F
Xeon Gold 6342 24C 2.8GHz 230W	PYBCP62XR	PY-CP62XR	D	F
Xeon Gold 6348 28C 2.6GHz 235W	PYBCP62X6	PY-CP62X6	D	F
Xeon Platinum 83xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352Y 32C 2.2GHz 205W, Speed Select feature	PYBCP62X9	PY-CP62X9	C	F
Xeon Platinum 83xx - Optimized Performance				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8358 32C 2.6GHz 250W	PYBCP62XA	PY-CP62XA	D	F
Xeon Platinum 8360Y 36C 2.4GHz 250W, Speed Select feature	PYBCP62XC	PY-CP62XC	D	F
Xeon Platinum 8362 32C 2.8GHz 265W as soon as available	PYBCP64X1 (special release)	PY-CP64X1 (special release)	tbd	tbd
Xeon Platinum 8368 38C 2.4GHz 270W	PYBCP62XD	PY-CP62XD	D	F
Xeon Platinum 8380 40C 2.3GHz 270W	PYBCP62XF	PY-CP62XF	D	F
Xeon Gold 63xxT - NEBS/Long Life				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6338T 24C 2.1GHz 165W	PYBCP62XW	PY-CP62XW	C	E
Xeon Gold 63xxN - NFV Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6330N 28C 2.2GHz 165W	PYBCP62XY	PY-CP62XY	C	E
Xeon Gold 63xxU - Single Socket				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6312U 24C 2.4GHz 185W	PYBCP62XS	-	C	-
Xeon Gold 6314U 32C 2.3GHz 205W	PYBCP62X2	-	C	-
Xeon Platinum 83xxV/P - Colud/VM Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933/3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352V 36C 2.1GHz 195W, Speed Select feature	PYBCP62X8	PY-CP62X8	C	F
Xeon Platinum 8358P 32C 2.6GHz 240W	PYBCP62XB	PY-CP62XB	D	F
Xeon - SGX enclave				
64-bit Intel Xeon processor supporting HT*, DDR4 @ xxxx MHz & UPI Bus @ xx GT/s				
Xeon Gold 5318S 24C 2.1GHz 165W	PYBCP62XN	PY-CP62XN	C	E
Xeon - Media and AI Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352M 32C 2.3GHz 185W as soon as available	PYBCP64X2	PY-CP64X2	C	F

For configuring a 2nd CPU, please order the required cooling kit with this order code.

Cooler Kit		
Cooling Kit 2nd CPU	S26361-F3849-E100	-
Cooling kit up to 150W TDP or Rear Bay option; no ATD, 4x Dual Rotor FAN	-	PY-TKPCPC81
Cooling kit up to 270W TDP or ATD; no Rear Bay option, 4x Dual Rotor FAN	-	PY-TKPCPC82

CPU Dummy module instead 2nd CPU		
CPU Dummy module for 1x CPU configuration, max 1x per system. For improving the thermal condition of 1x CPU configuration. 4x Dual Rotor FAN Refer to Thermal Rule.	PYBDMC02	PY-DMC02 Special Release
iRMC FW 3.49P or later version is required.		

Available May/2023

Cooler Kit for upgrading 2nd CPU from CPU Dummy module.		
Cooling kit including 1U heatsink up to 150W TDP or Rear Bay option; no ATD	-	PY-TKPCPC96
Cooling kit including 1U EVAC heatsink, up to 270W TDP or ATD; no Rear Bay option	-	PY-TKPCPC97

Available May/2023

Available May/2023

C

Chapter 4 - DDR4 System memory

C

Each CPU offers 16 Slots for DDR4 Memory Modules organised in 2 Banks and 8 Channels with 4 Memory Controllers (2 Channels each).
If you need more than 16 Slots you have to configure 2nd CPU.
Depending on the amount of memory configured you can decide Normal Memory RAS mode or Mirroring Memory RAS Mode.

There are different kinds of DDR4 Memory Modules available: RDIMM x4, RDIMM x8, RDIMM 3DS x4, LRDIMM.
Mix of these different kind of memories is not allowed.
In addition, PMem is available and can be mixed with all kind of memory modules.

Supported memory capacities per CPU:
Up to 2TB using DDR4 LRDIMM (16x 128GB DDR4 LRDIMM)
Up to 5TB using PMem + DDR4 DIMM (8x 512GB PMem + 8x 128GB DDR4 LRDIMM)

Supported memory capacities per System (with 2CPU configuration):
Up to 4TB using DDR4 LRDIMM (32x 128GB DDR4 LRDIMM)
Up to 10TB using PMem + DDR4 DIMM (16x 512GB PMem + 16x 128GB DDR4 LRDIMM)

The memory speed depends on configuration restricted by the CPU SKU (max. 3,200 MT/s).
DDR4 memory is operated at 1.2V

Memory Mode : either one of follwoig memory modes must be selected.

Independent Mode	Requires 1, 2, 4, 6, 8, 12 or 16 memory Module per CPU	1x per CPU	PYBMMD2
Independent Mode required to be the best performance. ADDDC Sparing is available in case system configured by DDR4xRx4 DIMM only.			
Mirroring Mode	Requires 8 or 16 memory Module per CPU	1x per CPU	PYBMMC4
BIOS preconfiguration for Mirroring mode. 8x identical memory modules are always equipped on same bank across all channel to use the mirrored channel mode. Half of the modules contain active data, the remaining modules contain mirrored data. min/max 1x per CPU; max 2x for System			

DDR4 DIMM only configuration section

Min 1x DIMM per CPU is required.
Only one type of order code is selectable with BTO order code.
Mix of different type of order code within same type DIMM (RDIMMx8, RDIMMx4, RDIMM 3DS or LRDIMM) **is allowed with loose deliverly order code.**

DDR4 Registered DIMM 3200MHz 1R/2R x8

8GB (1x8GB) 1Rx8 DDR4-3200 R ECC	max 16x per CPU	PYBME08SJ	PY-ME08SJ
16GB (1x16GB) 2Rx8 DDR4-3200 R ECC	max 16x per CPU	PYBME16SJ	PY-ME16SJ
max 16x per CPU; max 32x for System			

DDR4 Registered DIMM 3200MHz 1R/2R x4

16GB (1x16GB) 1Rx4 DDR4-3200 R ECC	max 16x per CPU	PYBME16SJ2	PY-ME16SJ2
32GB (1x32GB) 2Rx4 DDR4-3200 R ECC	max 16x per CPU	PYBME32SJ	PY-ME32SJ
64GB (1x64GB) 2Rx4 DDR4-3200 R ECC	max 16x per CPU	PYBME64SJ	PY-ME64SJ
max 16x per CPU; max 32x for System			

DDR4 LR Registered DIMM 3200MHz 4R x4

64GB (1x64GB) 4Rx4 DDR4-3200 LR ECC	max 16x per CPU	PYBME64EH	PY-ME64EH
128GB (1x128GB) 4Rx4 DDR4-3200 LR ECC	max 16x per CPU	PYBME12EH	PY-ME12EH
max 16x per CPU; max 32x for System			

Optane PMem configuration section

Only one type of Optane PMem is allowed per system
 (to be check) Only one Optane PMem package and one Memory package is allowed per CPU
 Every CPU has to have the same Optane PMem & Memory configuration
 (to be check) Liquid cooling base unit does not support Optane PMem

Optane PMem (Barlow pass)		order code (BTO)	order code (loose delivery)
128GB (1x128GB) Optane PMem-3200	max 8x per CPU	-	PY-ME12PAQ
256GB (1x256GB) Optane PMem-3200	max 8x per CPU	-	PY-ME25PAQ
512GB (1x512GB) Optane PMem-3200	max 8x per CPU	-	PY-ME51PAQ
max 8x per CPU; max 16x for System			

Optane PMem 128GB (Barlow pass)		order code (BTO)	order code (loose delivery)
128GB (1x128GB) Optane PMem-3200	max 1x per CPU	PYBME12PAK	-
max 1x per CPU; max 2x for System			

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
max 1x per CPU; max 2x for System			

Optane PMem 256GB (Barlow pass)		order code (BTO)	order code (loose delivery)
256GB (1x256GB) Optane PMem-3200	max 1x per CPU	PYBME25PAK	-
max 1x per CPU; max 2x for System			

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
192GB (6x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
max 1x per CPU; max 2x for System			

Optane PMem 512GB (Barlow pass)		order code (BTO)	order code (loose delivery)
512GB (1x512GB) Optane PMem-3200	max 1x per CPU	PYBME51PAK	-
max 1x per CPU; max 2x for System			

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
192GB (6x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ	-
384GB (6x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME38SJ	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 128GB (Barlow pass)		order code (BTO)	order code (loose delivery)
256GB (2x128GB) Optane PMem-3200	max 1x per CPU	PYBME25PAL	-
max 1x per CPU; max 2x for System			

Available Memory Packages (12pcs package)		order code (BTO)	order code (loose delivery)
192GB (12x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ2	-
max 1x per CPU; max 2x for System			

Optane PMem 256GB (Barlow pass)		order code (BTO)	order code (loose delivery)
512GB (2x256GB) Optane PMem-3200	max 1x per CPU	PYBME51PAL	-
max 1x per CPU; max 2x for System			

Available Memory Packages (12pcs package)		order code (BTO)	order code (loose delivery)
192GB (12x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ2	-
384GB (12x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME38SJ2	-
max 1x per CPU; max 2x for System			

Optane PMem 512GB (Barlow pass)		order code (BTO)	order code (loose delivery)
1024GB (2x512GB) Optane PMem-3200	max 1x per CPU	PYBME10PAL	-
max 1x per CPU; max 2x for System			

Available Memory Packages (12pcs package)		order code (BTO)	order code (loose delivery)
192GB (12x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ2	-
384GB (12x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME38SJ2	-
768GB (12x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME76SJ2	-
max 1x per CPU; max 2x for System			

Optane PMem 128GB (Barlow pass)		order code (BTO)	order code (loose delivery)
512GB (4x128GB) Optane PMem-3200	max 1x per CPU	PYBME51PAM	-
max 1x per CPU; max 2x for System			

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
64GB (4x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME64SJ2	-
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ3	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ3	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 256GB (Barlow pass)		order code (BTO)	order code (loose delivery)
1024GB (4x256GB) Optane PMem-3200	max 1x per CPU	PYBME10PAM	-
max 1x per CPU; max 2x for System			

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
64GB (4x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME64SJ2	-
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ3	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ3	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 512GB (Barlow pass)		order code (BTO)	order code (loose delivery)
2048GB (4x512GB) Optane PMem-3200	max 1x per CPU	PYBME20PAM	-
max 1x per CPU; max 2x for System			

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ3	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ3	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 128GB (Barlow pass)		order code (BTO)	order code (loose delivery)
1024GB (8x128GB) Optane PMem-3200	max 1x per CPU	PYBME10PAP	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 256GB (Barlow pass)		order code (BTO)	order code (loose delivery)
2048GB (8x256GB) Optane PMem-3200	max 1x per CPU	PYBME20PAP	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 512GB (Barlow pass)		order code (BTO)	order code (loose delivery)
4096GB (8x512GB) Optane PMem-3200	max 1x per CPU	PYBME40PAP	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

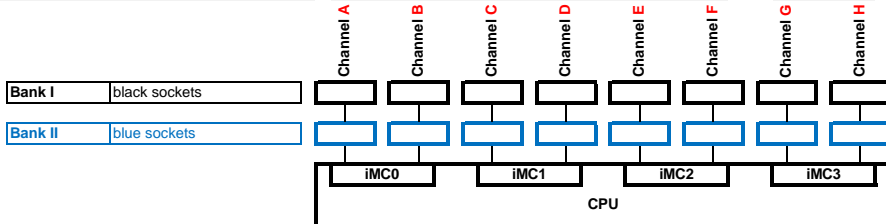
D

Detailed information

RAS feature	Memory Mode	RDIMM		BIOS setting
		x8	x4	
ECC	Independent Mode/Mirroring Mode	yes	yes	always enabled.
SDDC	Independent Mode/Mirroring Mode	no	yes	always enabled in case x4 DIMM configured.
ADDDC Sparing	Independent Mode	no	yes	disabled as default.
Mirroring channel	Mirroring Mode	yes	yes	enabled in case Mirroring Mode ordered.

	Configuration		Available Capacity	
	DIMM	CPU	Normal Mode	Mirroring Mode
Min. Memory	1 Module / CPU	with one CPU	8GB: 8GB x1	-
	8 Module / CPU	with one CPU	-	32GB: 8GBx8x50%
Max. Memory per CPU	16 Modules / CPU	with two CPU	2TB: 128GB x16	1TB: 128GBx16x50%
Max. Memory per System	32 Modules / System	with two CPU	4TB: 128GB x32	2TB: 128GBx32x50%

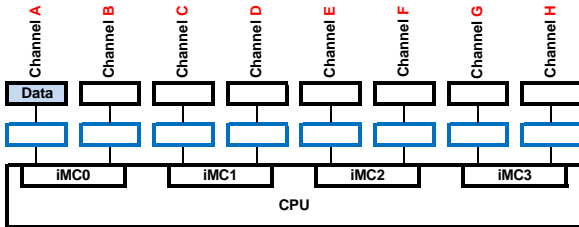
The memory sockets on the Systemboards are color coded



Normal Mode population DDR4 DIMM only

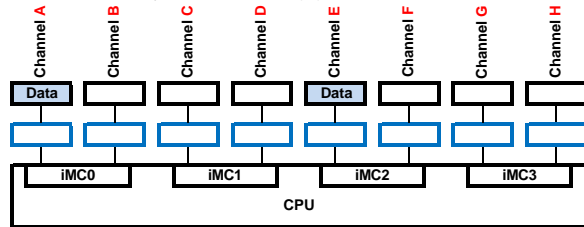
Normal Mode requires 1x, 2x, 4x, 6x, 8x, 12x or 16x DIMM configuration per CPU.
 for 2x or more than 2x DIMM configuration,
 Between Chanel A-E/C-G/B-F/D-H, balanced configuration is required. same bank of each chanel need to be populatd.
 Between Chanel A-C-E-G/B-D-F-H, each chanel capacity need to be same if DIMM populated in each Chanel.

1 DIMMs for 1CPU



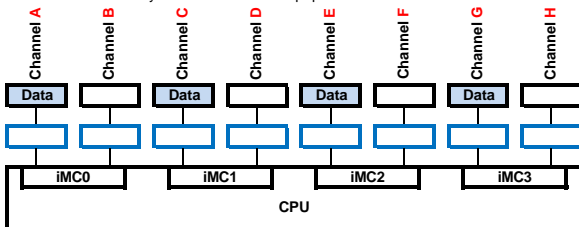
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



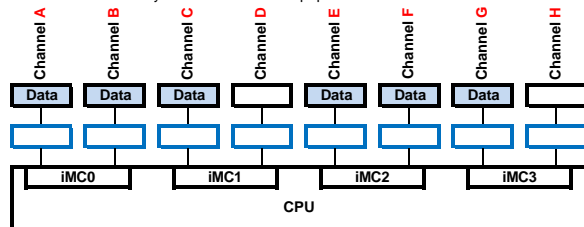
4 DIMMs for 1CPU

4x identical memory modules need to be populated.



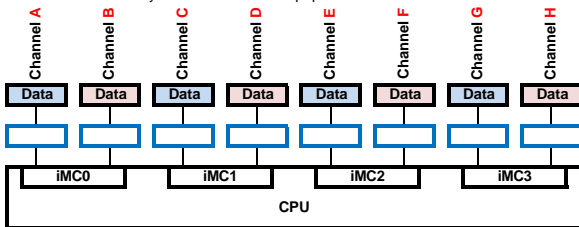
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



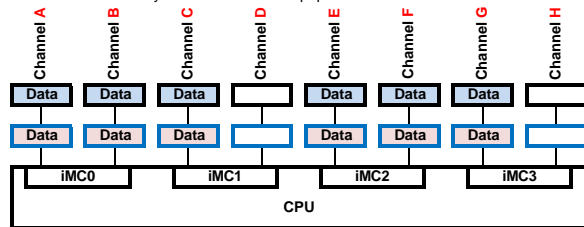
8 DIMMs for 1CPU

4x identical memory modules need to be populated.



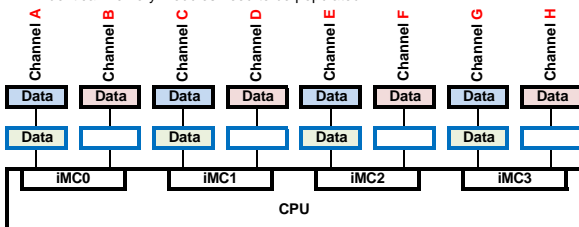
12 DIMMs for 1CPU

6x identical memory modules need to be populated.



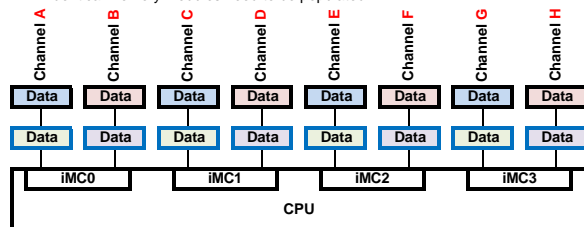
12 DIMMs for 1CPU

4x identical memory modules need to be populated.



16 DIMMs for 1CPU

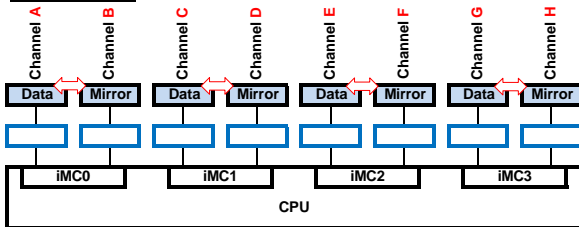
4x identical memory modules need to be populated.



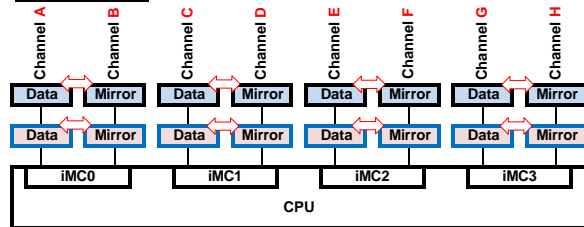
Mirroring Mode population DDR4 DIMM only

Mirroring Mode requires 8x or 16x DIMM configuration per CPU.
 in addition to Normal Mode Memory population rules,
 Between Chanel A-B/C-D/E-F/G-H, identical DIMM need to be populated in same bank.

8 DIMMs for 1CPU



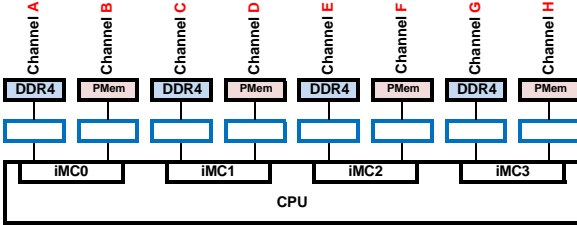
16 DIMMs for 1CPU



Normal Mode population DDR4 DIMM with Optane PMem

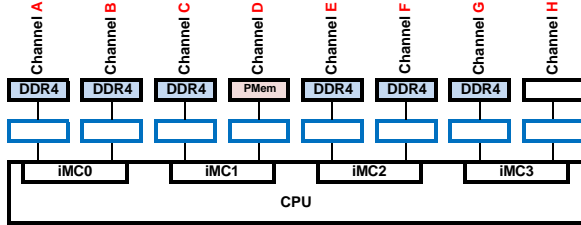
4x DDR4 + 4x PMem for 1CPU

AD, MM is available



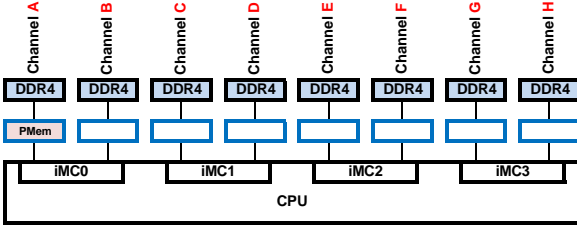
6x DDR4 + 1x PMem for 1CPU

only AD is available



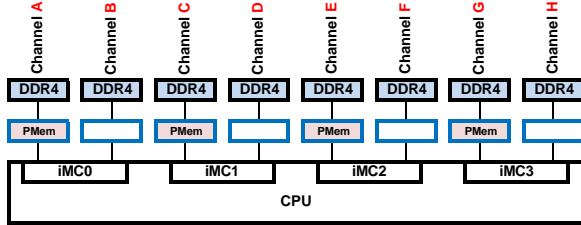
8x DDR4 + 1x PMem for 1CPU

only AD is available



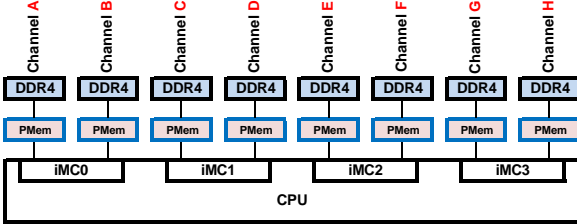
8x DDR4 + 4x PMem for 1CPU

AD, MM is available



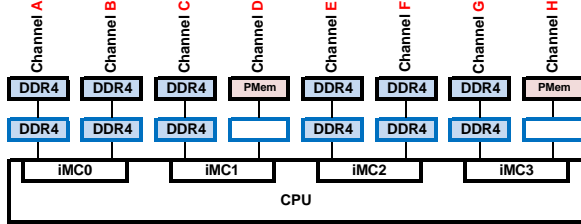
8x DDR4 + 8x PMem for 1CPU

AD, MM is available



12x DDR4 + 2x PMem for 1CPU

only AD is available

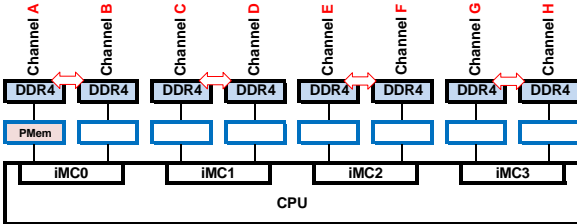


Mirroring Mode population DDR4 DIMM with Optane PMem

PMem is not supported full Mirroring Mode. When Optane PMem is installed in system, Address range mirroring is supported in App Direct Mode. DDR4 DIMM is only mirrored and Optane PMem is not mirrored.

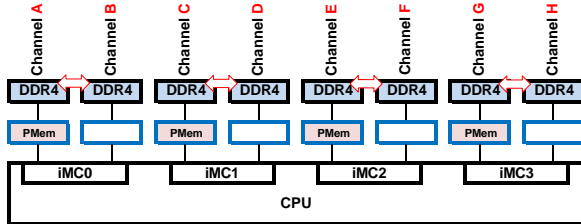
8x DDR4 + 1x PMem for 1CPU

only AD is available



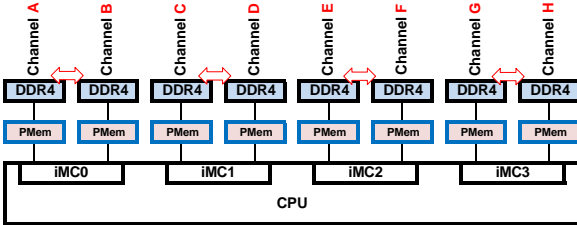
8x DDR4 + 4x PMem for 1CPU

only AD is available



8x DDR4 + 8x PMem for 1CPU

only AD is available



Chapter 5 - Graphics options

D PYBVAPO4 PY-VAP04 Front VGA connector (15-pin) Front VGA connector (15-pin) including cable and front connector Not for 1003.3", 32xED-SFF base unit and short depth base unit max. 1x per system		PYBVAPI2 PY-VAP12 Front VGA connector (15-pin) Front VGA connector (15-pin) including cable and front connector Only for short depth base units (PYR250SRDN and PYR250SRFN) max. 1x per system		Optional Front VGA only possible for coboard graphics
already EOL.				
S26361-F4066-E401 S26361-F4066-L401 PERLA CP NVIDIA Quadro P400 NVIDIA Quadro 2GB PCIe 3.0 x16 Connectors: 3x Mini-DP no cable kit included cables must be ordered separately Triple head + professional 2-D + 3-D supported for Windows OS support for Linux OS Low profile bracket max. 1x per system	PYBVG4T4L PY-VG4T4L PERLA CP NVIDIA T400 4GB LP NVIDIA T400 4GB PCIe 3.0 x16 Connectors: 3x Mini-DP no cable kit included cables must be ordered separately Triple head + professional 2-D + 3-D supported for Windows OS support for Linux OS Low profile bracket max. 1x per system	PYBVG4T2L PY-VG4T2L PERLA CP NVIDIA T400 4GB LP NVIDIA T400 4GB PCIe 3.0 x16 Connectors: 3x Mini-DP no cable kit included cables must be ordered separately Triple head + professional 2-D + 3-D supported for Windows OS support for Linux OS Low profile bracket max. 1x per system	The optional NVIDIA Quadro P400 graphic card offers triple head operation and full 3D video support. The cables kit is not included. It is necessary to order cable kit. Remove Video direction via IRMC must be disabled.	
S26361-F4066-E11 S26361-F4066-L11 NVIDIA QP ADAPTER max. 3x per card				
S26361-F4066-E12 S26361-F4066-L12 DP-VGA ADAPTER max. 3x per card	S26361-F4066-E13 S26361-F4066-L13 DP-DVI ADAPTER max. 3x per card			

NVIDIA Tesla T4 / A2

S26361-F4024-E400 S26361-F4024-L400 PY NVIDIA Tesla T4 NVIDIA Tesla T4 Card with 24GB graphic core & 16GB GDDR6 RAM, PCIe Gen4 x16, Low profile, 70W power cables from PSU need to be ordered separately. PCIe T4 (Gen4) - single width, low profile bracket, no external power cable, 70W Limitation: Refer to Chapter18 - Thermal Rule for the detail. max. 3x per system	PYBVG4A4L PY-VG4A4L NVIDIA A2 NVIDIA A2 Card 16GB GDDR6 memory, PCIe Gen4 power cables from PSU need to be ordered separately. PCIe T4 (Gen4) - single width, low profile bracket, no external power cable, 60W Limitation: Refer to Chapter18 - Thermal Rule for the detail. max. 3x per system	PYBVG4L1L PY-VG4L1L NVIDIA L4 NVIDIA L4 Card 24GB GDDR6 memory, PCIe Gen4 power cables from PSU need to be ordered separately. PCIe T4 (Gen4) - single width, low profile bracket, no external power cable, 70W Limitation: Refer to Chapter18 - Thermal Rule for the detail. max. 3x per system
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For NVIDIA GRID SW License to use the virtual graphics (GRID) functionality, a SWL activation key and support license has to be purchased additionally. Please refer to additional license change for Virtual Applications / Virtual PC / Virtual Workstation plus SWLs (Support, Updates & Maintenance subscriptions). In addition, it is possible to use as GPU in this case, there is no NVIDIA GRID SW License.
 Card's personality is set to graphic card as factory!

Perpetual Software license

S26361-F4024-S101 S26361-F4024-L101 GRID Virtual Applications (vApps) Perpetual License, 1 CCU	S26361-F4024-S201 S26361-F4024-L201 NVIDIA GRID Virtual PC (VPC) Perpetual License, 1 CCU	S26361-F4024-S301 S26361-F4024-L301 NVIDIA Quadro Virtual Workstation (VWS) Perpetual License, 1 CCU	SUMs must be ordered in equal numbers with each SW perpetual licenses. Please refer data sheet.
S26361-F4024-S805 S26361-F4024-L805 NVIDIA GRID vApps Prod SUMS 5 year, 1 CCU same volume with perpetual license	S26361-F4024-S815 S26361-F4024-L815 NVIDIA GRID vPC Prod SUMS 5 year, 1 CCU same volume with perpetual license	S26361-F4024-S825 S26361-F4024-L825 NVIDIA Quadro vWS Prod SUMS 5 year, 1 CCU same volume with perpetual license	

NVIDIA SUMS License (6 months) for renewal - Loose Delivery -		
S26361-F4024-L926 NVIDIA GRID vApps Prod SUMS 6 months Renew, 1 CCU NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L966 NVIDIA GRID vPC Prod SUMS 6 months Renew, 1 CCU NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L976 NVIDIA GRID vWS Prod SUMS 6 months Renew, 1 CCU NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.
NVIDIA SUMS License (1 year) for renewal - Loose Delivery -		
S26361-F4024-L981 NVIDIA GRID vApps Prod SUMS 1yr Renew, 1 CCU NVIDIA SUMS License (1 year) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L911 NVIDIA GRID vPC Prod SUMS 1yr Renew, 1 CCU NVIDIA SUMS License (1 year) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L921 NVIDIA GRID vWS Prod SUMS 1yr Renew, 1 CCU NVIDIA SUMS License (1 year) for renewal. It needs if you need to continue SUMs.
NVIDIA SUMS License (2 years) for renewal - Loose Delivery -		
S26361-F4024-L932 NVIDIA GRID vApps Prod SUMS 2yrs Renew, 1 CCU NVIDIA SUMS License (2 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L962 NVIDIA GRID vPC Prod SUMS 2yrs Renew, 1 CCU NVIDIA SUMS License (2 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L972 NVIDIA GRID vWS Prod SUMS 2yrs Renew, 1 CCU NVIDIA SUMS License (2 years) for renewal. It needs if you need to continue SUMs.
NVIDIA SUMS License (3 years) for renewal - Loose Delivery -		
S26361-F4024-L933 NVIDIA GRID vApps Prod SUMS 3yrs Renew, 1 CCU NVIDIA SUMS License (3 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L963 NVIDIA GRID vPC Prod SUMS 3yrs Renew, 1 CCU NVIDIA SUMS License (3 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L973 NVIDIA GRID vWS Prod SUMS 3yrs Renew, 1 CCU NVIDIA SUMS License (3 years) for renewal. It needs if you need to continue SUMs.
NVIDIA SUMS License (4 years) for renewal - Loose Delivery -		
S26361-F4024-L934 NVIDIA GRID vApps Prod SUMS 4yrs Renew, 1 CCU NVIDIA SUMS License (4 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L964 NVIDIA GRID vPC Prod SUMS 4yrs Renew, 1 CCU NVIDIA SUMS License (4 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L974 NVIDIA GRID vWS Prod SUMS 4yrs Renew, 1 CCU NVIDIA SUMS License (4 years) for renewal. It needs if you need to continue SUMs.
NVIDIA SUMS License (5 years) for renewal - Loose Delivery -		
S26361-F4024-L935 NVIDIA GRID vApps Prod SUMS 5yrs Renew, 1 CCU NVIDIA SUMS License (5 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L965 NVIDIA GRID vPC Prod SUMS 5yrs Renew, 1 CCU NVIDIA SUMS License (5 years) for renewal. It needs if you need to continue SUMs.	S26361-F4024-L975 NVIDIA GRID vWS Prod SUMS 5yrs Renew, 1 CCU NVIDIA SUMS License (5 years) for renewal. It needs if you need to continue SUMs.

This license model is NOT requirement for SUMS (support license). It is including it.

Subscription Software license

S26361-F4024-S111 S26361-F4024-L111 GRID Virtual Applications (vApps) Subscription License, 1 year, 1 CCU	S26361-F4024-S113 S26361-F4024-L113 GRID Virtual Applications (vApps) Subscription License, 1 year, 1 CCU	S26361-F4024-S115 S26361-F4024-L115 GRID Virtual Applications (vApps) Subscription License, 1 year, 1 CCU	S26361-F4024-S117 S26361-F4024-L117 NVIDIA GRID Virtual PC (vPC) Subscription License, 1 year, 1 CCU	S26361-F4024-S119 S26361-F4024-L119 NVIDIA GRID Virtual PC (vPC) Subscription License, 1 year, 1 CCU	S26361-F4024-S210 S26361-F4024-L210 NVIDIA GRID Virtual PC (vPC) Subscription License, 1 year, 1 CCU	S26361-F4024-S311 S26361-F4024-L311 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, 1 year, 1 CCU	S26361-F4024-S313 S26361-F4024-L313 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, 1 year, 1 CCU	S26361-F4024-S315 S26361-F4024-L315 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, 1 year, 1 CCU
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1 NVIDIA Subscription License (6 months) for renewal - Loose Delivery -

S26361-F4024-L196 NVIDIA GRID vApps Subscription License 6 months Renew, 1 CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L197 NVIDIA GRID vPC Subscription License 6 months Renew, 1 CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L198 NVIDIA GRID Quadro vDWS Subscription License 6 months Renew, 1 CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.
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NVIDIA Subscription License (1 year) for renewal - Loose Delivery -

S26361-F4024-L192 NVIDIA GRID vApps Subscription License 1yr Renew, 1 CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L193 NVIDIA GRID vPC Subscription License 1yr Renew, 1 CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L194 NVIDIA GRID Quadro vDWS Subscription License 1yr Renew, 1 CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.
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NVIDIA Subscription License (2 years) for renewal - Loose Delivery -

S26361-F4024-L190 NVIDIA GRID vApps Subscription License 2yrs Renew, 1 CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L191 NVIDIA GRID vPC Subscription License 2yrs Renew, 1 CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L195 NVIDIA GRID Quadro vDWS Subscription License 2yrs Renew, 1 CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.
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NVIDIA Subscription License (3 years) for renewal - Loose Delivery -

S26361-F4024-L195 NVIDIA GRID vApps Subscription License 3yrs Renew, 1 CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L193 NVIDIA GRID vPC Subscription License 3yrs Renew, 1 CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L193 NVIDIA GRID Quadro vDWS Subscription License 3yrs Renew, 1 CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.
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NVIDIA Subscription License (5 years) for renewal - Loose Delivery -

S26361-F4024-L195 NVIDIA GRID vApps Subscription License 5yrs Renew, 1 CCU NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L193 NVIDIA GRID vPC Subscription License 5yrs Renew, 1 CCU NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L195 NVIDIA GRID Quadro vDWS Subscription License 5yrs Renew, 1 CCU NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.
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Education Software license

Perpetual license

S26361-F4024-S401 S26361-F4024-L401 NVIDIA GRID EDU Perpetual License, 1 CCU

1 EDU SUMS must be ordered in equal numbers with each SW perpetual licenses. Please refer data sheet.

Subscription license

S26361-F4024-S411 S26361-F4024-L411 NVIDIA GRID EDU Subscription License, 1 year, 1 CCU	S26361-F4024-S413 S26361-F4024-L413 NVIDIA GRID EDU Subscription License, 3 year, 1 CCU
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S26361-F4024-S835 S26361-F4024-L835 NVIDIA GRID EDU SUMS 5 year, 1 CCU Items volume with EDU
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1 NVIDIA EDU SUMS License (6 months) for renewal - Loose Delivery -

S26361-F4024-L336 NVIDIA GRID EDU SUMS 6 months Renew, 1 CCU NVIDIA EDU SUMS License (6 months) for renewal. It needs if you need to continue EDU SUMS.
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NVIDIA EDU SUMS License (1 year) for renewal - Loose Delivery -

S26361-F4024-S311 NVIDIA GRID EDU SUMS 1yr Renew, 1 CCU NVIDIA EDU SUMS License (1 year) for renewal. It needs if you need to continue EDU SUMS.

NVIDIA EDU SUMS License (2 years) for renewal - Loose Delivery -

S26361-F4024-L332 NVIDIA GRID EDU SUMS 2yrs Renew, 1 CCU NVIDIA EDU SUMS License (2 years) for renewal. It needs if you need to continue EDU SUMS.

NVIDIA EDU SUMS License (3 years) for renewal - Loose Delivery -

S26361-F4024-L333 NVIDIA GRID EDU SUMS 3yrs Renew, 1 CCU NVIDIA EDU SUMS License (3 years) for renewal. It needs if you need to continue EDU SUMS.

NVIDIA EDU SUMS License (4 years) for renewal - Loose Delivery -

S26361-F4024-L334 NVIDIA GRID EDU SUMS 4yrs Renew, 1 CCU NVIDIA EDU SUMS License (4 years) for renewal. It needs if you need to continue EDU SUMS.

NVIDIA EDU SUMS License (5 years) for renewal - Loose Delivery -

S26361-F4024-L335 NVIDIA GRID EDU SUMS 5yrs Renew, 1 CCU NVIDIA EDU SUMS License (5 years) for renewal. It needs if you need to continue EDU SUMS.

1 NVIDIA Subscription License (6 months) for renewal - Loose Delivery -

S26361-F4024-L346 NVIDIA GRID EDU Subscription License 6 months Renew, 1 CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.
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NVIDIA Subscription License (1 year) for renewal - Loose Delivery -

S26361-F4024-S341 NVIDIA GRID EDU Subscription License 1yr Renew, 1 CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (2 years) for renewal - Loose Delivery -

S26361-F4024-L342 NVIDIA GRID EDU Subscription License 2yrs Renew, 1 CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.

NVIDIA Subscription License (3 years) for renewal - Loose Delivery -

S26361-F4024-L343 NVIDIA GRID EDU Subscription License 3yrs Renew, 1 CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.

Chapter 7 - SAS / RAID Controller

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for combination and max number of controllers please see folder base / chassis

onboard SATA controller with SW-RAID

max number of drives depends on base units

For Support OS, please check "PRIMERGY Release Matrix" at <https://support.ts.fujitsu.com/>

onboard controller for SATA HDD or SSD drives

8 ports 3, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1, 10	2x	onboard, included
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internal HBA and RAID controller, no 2nd Level cache

Internal RAID / HBA controllers for SAS, SATA HDD or SSD drives

PRAID CP500i RAID Contr.	No Cache	RAID 0, 1, 10, 5, 50	1x	PYBSR3FBL	PY-SR3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					
PSAS CP503i HBA SAS Contr.	No Cache	HBA, no RAID	1x	PYBSC3FBL	PY-SC3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality					
PSAS CP503i HBA SAS Contr. for vSAN	No Cache	HBA, no RAID	1x	PYBSC3FBVL	PY-SC3FBV
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality; released for VMWare vSAN / vSphere in PYR2536R2N / PYR2536RCN /					
Internal RAID / HBA controllers for SAS, SATA HDD or SSD drives					
PRAID CP600i LP -Cancelled-	No Cache	RAID 0, 1, 10	1x	PYBSR4FAL	PY-SR4FA
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3808					
PSAS CP600i LP	No Cache	HBA, no RAID	1x	PYBSC4FAL	PY-SC4FA
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816; IT FW stack without RAID functionality					
PSAS CP600i LP for vSAN available from 20	No Cache	HBA, no RAID	1x	PYBSC4FAVL	PY-SC4FAV
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816; IT FW stack without RAID functionality; released for VMWare vSAN / vSphere in PYR2536R2N / PYR2536RBN					

Internal RAID / HBA controllers for SAS, SATA HDD or SSD drives

PSAS CP 2100-8i LP	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC3MA2L	-
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 3.0 x8 (int.) slot					
PSAS CP 2100-8i LP for vSAN	No Cache	HBA, no RAID	1x	PYBSC3MAVL	-
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 3.0 x8 (int.) slot, released for VMWare vSAN / vSphere in PYR2536R2N / PYR2536RBN					

internal NVMe, SAS, SATA RAID controller with 2nd Level cache 2GB, 4GB, 8GB

Internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP520i RAID LP	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E202	S26361-F4042-L502
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
PRAID EP540i RAID LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E214	S26361-F4042-L514
PRAID EP580i RAID LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E208	S26361-F4042-L508
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 16 SAS/SATA devices without expander (the configuration for up to 4 x4 NVMe drives or mixed configuration for up to 8 SAS/SATA devices and up to 2 x4 NVMe devices require a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516 (FY: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
Internal RAID controllers for SAS, SATA HDD or SSD drives					
PRAID EP640i RAID LP	4GB Cache	RAID 0,1,10,5,50,6,60	1x	PYBSR4C63L	PY-SR4C63
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3908					
PRAID EP680i RAID LP	8GB Cache	RAID 0,1,10,5,50,6,60	1x	PYBSR4C6L	PY-SR4C6
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 16 SAS/SATA devices without expander (the configuration for up to 4 x4 NVMe drives or mixed configuration for up to 8 SAS/SATA devices and up to 2 x4 NVMe devices require a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FY: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option für PRAID EP5xx / EP6xx in internal RAID slot:			1x	PYBFR15	PY-FBR14
Supercap securing the power supply of the RAID contr. in case of power failure including cable with 25cm length. (For 2.5" base units)					
FBU Option for PRAID EP5xx / EP6xx in rear PCIe Slot#1:			1x	S26361-F4042-E171	S26361-F4042-L113
Supercap securing the power supply of the RAID controller in case of power failure including cable with 70cm length (For 3.5" base units or short depth model)					

Internal NVMe RAID controller with 2nd Level cache 4GB, 8GB

Internal drive RAID / SAS controllers for NVMe and SAS, SATA HDD or SSD drives					
PRAID EP540i RAID NVMe LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E224	S26361-F4042-L514
PRAID EP580i RAID NVMe LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E228	S26361-F4042-L508
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3516, for Chassis Variant PYR2536RBN up to 4 x4 NVMe devices or without expander, in mixed configuration up to 8 SAS/SATA devices and up to 2 x4 NVMe devices are supported. (the configuration for SAS/SATA only requires a different order number, please see above) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516 (FY: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
PRAID EP680i RAID NVMe LP	8GB Cache	RAID 0,1,10,5,50,6,60	1x	PYBSR4C62L	PY-SR4C6
For PY-SR4C6, to support NVMe devices, Firmware 52.15.0-4045 or later is required. PYBSR4C62L is shipped with the required Firmware 16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3916, for Chassis Variant PYR2536RBN up to 4 x4 NVMe devices or without expander, in mixed configuration up to 8 SAS/SATA devices and up to 2 x4 NVMe devices are supported. (the configuration for SAS/SATA only requires a different order number, please see above) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FY: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					

Internal RAID controllers for SAS, SATA HDD or SSD drives -Cancelled-					
PRAID EP 3252-8i LP	2GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA1L	PY-SR4MA1
PRAID EP 3254-8i LP	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA2L	PY-SR4MA2
8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x LP PCIe 4.0 x8 (int.) slot					
PRAID EP 3258-16i LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA3L	PY-SR4MA3
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives or mixed configuration for up to 8 SAS/SATA drives and up to 2 x4 NVMe drives require a different order number, please see below) requires 1x LP PCIe 4.0 x8 (int.) slot (FY: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 31cm length. (For 2.5" base units)			1x	PYFBM011	PY-FBM01
FBU Option for PRAID EP325x in rear PCIe Slot#1: Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length. (For 3.5" base units or short depth models)			1x	PYFBM013	PY-FBM01

Internal RAID controllers for SAS, SATA HDD or SAS, SATA, PCIe SSD drives -Cancelled-					
PRAID EP 3258-16i NVMe LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA4L	PY-SR4MA3
for Chassis Variant PYR2536RBN up to 4 x4 NVMe drives or without expander, in mixed configuration up to 8 SAS/SATA drives and up to 2 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above) requires 1x LP PCIe 4.0 x8 (int.) slot (FY: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 31cm length.			1x	PYFBM011	PY-FBM01
FBU Option for PRAID EP325x in rear PCIe Slot#1: Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length.			1x	PYFBM013	PY-FBM01

- PSAS CP 2100-8i and PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed**
- FBU cannot be combined with Advanced Thermal design.**
up to **2x FBU** can be integrated per **standard** base units, up to **1x FBU** can be integrated per **short depth** base units (including FBU option for external SAS/RAID controller)
- Expander configurations:** Use PRAID EPxxxi for optimal performance
- [Standard models]Cable kit for upgrade cards:** For upgrade L-parts RAID/HBA controller card, L-parts Cable kit is required.
Cable Kit for EP5xxi/CP5xxi: PY-CBS079 (not required for PYR2536R3N, onboard SATA cable can be used.)
Cable Kit for EP6xxi/CP6xxi: PY-CBS080
- [Short depth models]Cable kit for upgrade cards:** For upgrade L-parts RAID/HBA controller card, L-parts Cable kit is required.
Cable Kit for EP6xxi/CP6xxi/EP325x: PY-CBS114
Cable Kit for CP2100-8i/EP5xxi/CP5xxi: PY-CBS115
- PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i and PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed**
- PRAID EP 3258-16i NVMe and PSAS CP503i / CP600i / PRAID CP500i / CP600i / EP520i / EP540i / EP580i / EP640i / EP680i cannot be mixed**

G

external SAS controller

external HBA controllers for SAS HDD or SSD drives

PSAS CP500e HBA SAS Contr. LP	No Cache	HBA, no RAID	2x	PYBSC3FBEL	PY-SC3FBE
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8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD)
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408

external HBA controllers for SAS HDD or SSD drives

PSAS CP600e LP	No Cache	HBA, no RAID	2x	PYBSC4FAEL	PY-SC4FAE
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16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 4x SFF8644 (external Mini-SAS HD)
requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816

external SAS, RAID controller with 2nd Level cache 4GB/8G

RAID / SAS, SATA controllers for external drives with Cache and opt. Flash Backup Unit

PRAID EP540e RAID Contr. LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	S26361-F4063-E204	S26361-F4063-L504
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8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD)
includes Fastpath and SafeStore Advanced SW-Licence
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516

PRAID EP680e RAID Contr. LP	8GB Cache	RAID 0,1,10,5,50,6,60	2x	PYBSR4C6EL	PY-SR4C6E
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8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD)
includes Fastpath and SafeStore Advanced SW-Licence
requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916

optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included

FBU Option for PRAID EP5xx / EP6xx in rear PCIe Slot#1: Supercap securing the power supply of the RAID controller in case of power failure including cable with 70cm length	1x	S26361-F4042-E171	S26361-F4042-L113
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FBU Option for PRAID EP5xx / EP6xx in rear PCIe Slot #2/#3: Supercap securing the power supply of the RAID controller in case of power failure including cable with 100cm length	2x	PYBFBR14	PY-FBR14
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internal controller for PCIe SSD SFF (2.5" NVMe SSD), no HW-RAID

VMD feature is not supported on VMware ESXi. In the BIOS Setup Utility, [Configuration] menu - [VMD Configuration] cannot be "Enabled".

internal controller for PCIe SSD SFF (2.5" NVMe SSD)

PCIe 4.0	Intel CPU	No Cache	No HW-RAID	-	onboard, included
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optional Licence Activation Key for Intel VROC (VMD NVMe RAID)

Intel VROC Upgrade Key Premium	Intel CPU	No Cache	SW-RAID 0, 1, 10, 5	1x	PYBRLVR02	PY-RLVR02
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H

Chapter 6 - Drive cage and PCIe riser options

F

Rear HDD/SSD cage option

rear 2x2.5" HDD/SSD SFF **As soon as available**

PYBBA22S3 Option REAR HDD/SSD
Provides 2 rear hot-plug bays for SATA HDD and SAS/SATA SSD SFF
Note: No SAS HDD possible. SSD SAS 24G (based on Kioxia PM7) is not possible [Thermal Restriction] Refer to Chapter18 - Thermal Rule
Note: Consumes space for PCIe slot #2, #3
max. 1x per system
Includes all necessary cage, backplane and cables

G

Chapter 8 - ODD optical disk drives

The 10x 2,5" base unit (S26361-K1592-V501) does NOT feature ODD

H
Config with 1x 9.5mm bay



<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">S26361-F3778-E1</td> </tr> <tr> <td style="padding: 2px;">S26361-F3778-L1</td> </tr> <tr> <td style="padding: 2px;">DVD-RW supermulti ultra slim</td> </tr> <tr> <td style="padding: 2px;">all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux</td> </tr> <tr> <td style="padding: 2px;">9.5mm, black bezel</td> </tr> <tr> <td style="padding: 2px;">max. 1x per system</td> </tr> </table>	S26361-F3778-E1	S26361-F3778-L1	DVD-RW supermulti ultra slim	all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux	9.5mm, black bezel	max. 1x per system	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">S26361-F3641-E6</td> </tr> <tr> <td style="padding: 2px;">S26361-F3641-L6</td> </tr> <tr> <td style="padding: 2px;">Blu-ray Triple Writer ultra slim</td> </tr> <tr> <td style="padding: 2px;">6x BD-RW, 8x DVD, 24x CD, BD DL and all CD/DVD formats</td> </tr> <tr> <td style="padding: 2px;">9.5mm, black bezel</td> </tr> <tr> <td style="padding: 2px;">max. 1x per system</td> </tr> </table>	S26361-F3641-E6	S26361-F3641-L6	Blu-ray Triple Writer ultra slim	6x BD-RW, 8x DVD, 24x CD, BD DL and all CD/DVD formats	9.5mm, black bezel	max. 1x per system	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">S26361-F3718-E2</td> </tr> <tr> <td style="padding: 2px;">S26361-F3718-L2</td> </tr> <tr> <td style="padding: 2px;">DVD-ROM ultra slim</td> </tr> <tr> <td style="padding: 2px;">16x DVD; 48x CD-ROM</td> </tr> <tr> <td style="padding: 2px;">9.5mm black bezel</td> </tr> <tr> <td style="padding: 2px;">max. 1x per system</td> </tr> </table>	S26361-F3718-E2	S26361-F3718-L2	DVD-ROM ultra slim	16x DVD; 48x CD-ROM	9.5mm black bezel	max. 1x per system
S26361-F3778-E1																				
S26361-F3778-L1																				
DVD-RW supermulti ultra slim																				
all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux																				
9.5mm, black bezel																				
max. 1x per system																				
S26361-F3641-E6																				
S26361-F3641-L6																				
Blu-ray Triple Writer ultra slim																				
6x BD-RW, 8x DVD, 24x CD, BD DL and all CD/DVD formats																				
9.5mm, black bezel																				
max. 1x per system																				
S26361-F3718-E2																				
S26361-F3718-L2																				
DVD-ROM ultra slim																				
16x DVD; 48x CD-ROM																				
9.5mm black bezel																				
max. 1x per system																				

I

Chapter 10 - storage drives

I

SAS drives and SATA drives can be mixed, but cannot be used in one logical RAID volume.
 SATA drives can be connected to the onboard Controller (max. 8x),
 SAS drives require a dedicated SAS / RAID Controller
 Hard Disk Sector Format Information:
 512n HDD: 512 byte sectors on the drive media.
 512e (e=emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.
 512e HDD Disk Drives: VMware 6.0 or earlier is not supported.
 When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.
<https://kb.vmware.com/kb/2145210>
 DDPD: Drive Writes Per Day over 5 years.
 SED (=Self Encrypting Drives) require either a RAID controller with @SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.
 It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.
HDD Classes:
 Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.
 Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 12G .
 Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.
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.

2.5" (SFF) SAS and SATA SSD

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Seagate Nytro3732 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS40NGA	PY-SS40NGA
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS80NGA	PY-SS80NGA
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		PYBSS16NGA	PY-SS16NGA
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS40NGW	PY-SS40NGW
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS80NGW	PY-SS80NGW
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	PYBSS16NGW	PY-SS16NGW

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on Seagate Nytro3532 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS80NPF	PY-SS80NPF
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS16NPF	PY-SS16NPF
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS32NPF	PY-SS32NPF
6.4TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		PYBSS64NPF	PY-SS64NPF

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Seagate Nytro3332 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS96NNJ	PY-SS96NNJ
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS19NNH	PY-SS19NNH
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS38NNH	PY-SS38NNH
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS76NNH	PY-SS76NNH
15.36TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		PYBSS15NNG	PY-SS15NNG

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Kioxia PM7 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1		PYBSS76NNM	PY-SS76NNM
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1		PYBSS15NML	PY-SS15NML
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS76NNN	PY-SS76NNN
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS15NNM	PY-SS15NNM

max. 10x - depending on base unit & configuration, **this SSD is not available in Rear Bay**

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray [EOL, as long as stock available]							
based on Samsung SM883 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5733-E240	S26361-F5733-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5733-E480	S26361-F5733-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5733-E960	S26361-F5733-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5733-E192	S26361-F5733-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5588-E384	S26361-F5588-L384

max. 12x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on Micron 5300 MAX drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E240	S26361-F5776-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E480	S26361-F5776-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E960	S26361-F5776-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5776-E192	S26361-F5776-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		S26361-F5776-E384	S26361-F5776-L384

max. 12x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on Samsung PM897 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		PYBSS48NKQ	PY-SS48NKQ
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		PYBSS96NKQ	PY-SS96NKQ
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		PYBSS19NKQ	PY-SS19NKQ
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		PYBSS38NKQ	PY-SS38NKQ

max. 12x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Micron 5300 PRO drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E240	S26361-F5783-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E480	S26361-F5783-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E960	S26361-F5783-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5783-E192	S26361-F5783-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2		S26361-F5783-E384	S26361-F5783-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6		S26361-F5783-E768	S26361-F5783-L768

max. 12x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray [EOL]							
based on Samsung PM883 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E240	S26361-F5802-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E480	S26361-F5802-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E960	S26361-F5802-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E192	S26361-F5802-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E384	S26361-F5802-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E768	S26361-F5802-L768

max. 12x - depending on base unit & configuration

EMEA only

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Samsung PM893 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS24NMD	PY-SS24NMD
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS48NMD	PY-SS48NMD
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS96NMD	PY-SS96NMD
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS19NMD	PY-SS19NMD
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS38NMD	PY-SS38NMD
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		PYBSS76NMD	PY-SS76NMD

max. 12x - depending on base unit & configuration

J

J

2.5" (SFF) Hard drives

EOL, as long as stock available

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n	S26361-F5727-E530	S26361-F5727-L530
600GB	15 000	SAS 12Gb/s	512n	S26361-F5727-E560	S26361-F5727-L560
900GB	15 000	SAS 12Gb/s	512n	S26361-F5531-E590	S26361-F5531-L590

max. 10x - depending on base unit & configuration, HDD SAS is not available in Rear Bay

HDD SAS 2.5" 10K 512n (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part	
300GB	10 000	SAS 12Gb/s	512n	S26361-F5729-E130	S26361-F5729-L130	
600GB	10 000	SAS 12Gb/s	512n	S26361-F5729-E160	S26361-F5729-L160	
600GB	10 000	SAS 12Gb/s	512n	PYBSH601EB	PY-SH601EB	
900GB	10 000	SAS 12Gb/s	512n	S26361-F5729-E190	S26361-F5729-L190	
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5729-E112	S26361-F5729-L112	
1.2TB	10 000	SAS 12Gb/s	512n	PYBSH121EB	PY-SH121EB	
300GB	10 000	SAS 12Gb/s	512n	SED	PYBSH301EU	PY-SH301EU
600GB	10 000	SAS 12Gb/s	512n	SED	PYBSH601EU	PY-SH601EU
600GB	10 000	SAS 12Gb/s	512n	SED [EOL]	PYBSH601EV	PY-SH601EV
1.2TB	10 000	SAS 12Gb/s	512n	SED	PYBSH121EU	PY-SH121EU
1.2TB	10 000	SAS 12Gb/s	512n	SED [EOL]	PYBSH121EV	PY-SH121EV

max. 10x - depending on base unit & configuration, HDD SAS is not available in Rear Bay

HDD SAS 2.5" 10K 512e (SFF) Enterprise Mission Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part	
900GB	10 000	SAS 12Gb/s	512e	S26361-F5730-E190	S26361-F5730-L190	
1.8TB	10 000	SAS 12Gb/s	512e	PYBSH181D8	PY-SH181D8	
2.4TB	10 000	SAS 12Gb/s	512e	PYBSH241D8	PY-SH241D8	
1.8TB	10 000	SAS 12Gb/s	512e	SED	PYBSH181DV	PY-SH181DV
2.4TB	10 000	SAS 12Gb/s	512e	SED	PYBSH241DV	PY-SH241DV

max. 10x - depending on base unit & configuration, HDD SAS is not available in Rear Bay

K

K

3.5" (LFF) SAS and SATA SSD

SSD SAS 3.5" Write Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Seagate Nytro3732** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		PYBTS40NG9	PY-TS40NG9
800GB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		PYBTS80NG9	PY-TS80NG9
1.6TB	3.5" (LFF)	SAS 12Gb/s	Write Intensive	10		PYBTS16NG9	PY-TS16NG9

max. 4x - depending on base unit & configuration

SSD SAS 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Seagate Nytro3532** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		PYBTS80NPF	PY-TS80NPF
1.6TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		PYBTS16NPF	PY-TS16NPF
3.2TB	3.5" (LFF)	SAS 12Gb/s	Mixed Use	3		PYBTS32NPF	PY-TS32NPF

max. 4x - depending on base unit & configuration

SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Seagate Nytro3532** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		PYBTS96NNE	PY-TS96NNE
1.92TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		PYBTS19NNE	PY-TS19NNE
3.84TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		PYBTS38NNE	PY-TS38NNE
7.68TB	3.5" (LFF)	SAS 12Gb/s	Read Intensive	1		PYBTS76NNE	PY-TS76NNE

max. 4x - depending on base unit & configuration

SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Kioxia PM7** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		PYBTS76NNJ	PY-TS76NNJ
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		PYBTS15NN	PY-TS15NN
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS76NNK	PY-TS76NNK
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS15NN2	PY-TS15NN2

max. 4x - depending on base unit & configuration

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray **[EOL, as long as stock available]**based on **Samsung SM883** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5732-E240	S26361-F5732-L240
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5732-E480	S26361-F5732-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5732-E960	S26361-F5732-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5732-E192	S26361-F5732-L192
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5589-E384	S26361-F5589-L384

max. 4x - depending on base unit & configuration

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Micron 5300 MAX** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E240	S26361-F5775-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E480	S26361-F5775-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E960	S26361-F5775-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		S26361-F5775-E192	S26361-F5775-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		S26361-F5775-E384	S26361-F5775-L384

max. 4x - depending on base unit & configuration

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace traybased on **Samsung PM897** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS48NK8	PY-TS48NK8
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS96NK8	PY-TS96NK8
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS19NK8	PY-TS19NK8
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3		PYBTS38NK8	PY-TS38NK8

max. 4x - depending on base unit & configuration

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Micron 5300 PRO drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E240	S26361-F5782-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E480	S26361-F5782-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E960	S26361-F5782-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		S26361-F5782-E192	S26361-F5782-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2		S26361-F5782-E384	S26361-F5782-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6		S26361-F5782-E768	S26361-F5782-L768

max. 4x - depending on base unit & configuration

EMEA only

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray [EOL]							
based on Samsung PM883 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E240	S26361-F5801-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E480	S26361-F5801-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E960	S26361-F5801-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E192	S26361-F5801-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E384	S26361-F5801-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5801-E768	S26361-F5801-L768

max. 4x - depending on base unit & configuration

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Samsung PM893 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS24NM9	PY-TS24NM9
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS48NM9	PY-TS48NM9
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS96NM9	PY-TS96NM9
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS19NM9	PY-TS19NM9
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS38NM9	PY-TS38NM9
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		PYBTS76NM9	PY-TS76NM9

max. 4x - depending on base unit & configuration

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3.5" (LFF) Hard drives

EOL, as long as stock available

HDD SAS 3.5" 15K (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n	S26361-F5726-E530	S26361-F5726-L530
600GB	15 000	SAS 12Gb/s	512n	S26361-F5726-E560	S26361-F5726-L560
900GB	15 000	SAS 12Gb/s	512n	S26361-F5532-E590	S26361-F5532-L590

max. 4x - depending on base unit & configuration

HDD SAS 3.5" 10K 512n (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
300GB	10 000	SAS 12Gb/s	512n	S26361-F5728-E130	S26361-F5728-L130
600GB	10 000	SAS 12Gb/s	512n	S26361-F5728-E160	S26361-F5728-L160
600GB	10 000	SAS 12Gb/s	512n	PYBTH601E7	PY-TH601E7
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5728-E112	S26361-F5728-L112
1.2TB	10 000	SAS 12Gb/s	512n	PYBTH121E7	PY-TH121E7

max. 4x - depending on base unit & configuration

HDD SAS 3.5" 10K 512e (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1.8TB	10 000	SAS 12Gb/s	512e	PYBTH181D7	PY-TH181D7
2.4TB	10 000	SAS 12Gb/s	512e	PYBTH241D7	PY-TH241D7

max. 4x - depending on base unit & configuration

HDD SAS 3.5" 7.2K 512n (LFF) Enterprise Business critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
2TB	7 200	SAS 12Gb/s	512n	PYBCH2T7G4	PY-CH2T7G4
4TB	7 200	SAS 12Gb/s	512n	PYBCH4T7G4	PY-CH4T7G4

max. 4x - depending on base unit & configuration

HDD SAS 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part	
6TB	7 200	SAS 12Gb/s	512e	PYBCH6T7B9	PY-CH6T7B9	
8TB	7 200	SAS 12Gb/s	512e	S26361-F5635-E800	S26361-F5635-L800	
12TB	7 200	SAS 12Gb/s	512e	PYBCHCT7B6	PY-CHCT7B6	
12TB	7 200	SAS 12Gb/s	512e	PYBCHCT7B7	PY-CHCT7B7	
14TB	7 200	SAS 12Gb/s	512e	PYBCHET7B6	PY-CHET7B6	
16TB	7 200	SAS 12Gb/s	512e	S26361-F5571-E160	S26361-F5571-L160	
18TB	7 200	SAS 12Gb/s	512e	PYBCHJT7B2	PY-CHJT7B2	
6TB	7 200	SAS 12Gb/s	512e	SED	PYBCH6T7BU	PY-CH6T7BU
8TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5584-E800	S26361-F5584-L800
12TB	7 200	SAS 12Gb/s	512e	SED	PYBCHCT7BV	PY-CHCT7BV
12TB	7 200	SAS 12Gb/s	512e	SED	PYBCHCT7BW	PY-CHCT7BW
14TB	7 200	SAS 12Gb/s	512e	SED	PYBCHET7BV	PY-CHET7BV
16TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E160	S26361-F5624-L160
18TB	7 200	SAS 12Gb/s	512e	SED	PYBCHJT7BT	PY-CHJT7BT

max. 4x - depending on base unit & configuration

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n	PYBBH1T7B9	PY-BH1T7B9
2TB	7 200	SATA 6Gb/s	512n	PYBBH2T7B9	PY-BH2T7B9
4TB	7 200	SATA 6Gb/s	512n	PYBBH4T7B9	PY-BH4T7B9

max. 4x - depending on base unit & configuration

HDD SATA 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
6TB	7 200	SATA 6Gb/s	512e	PYBBH6T7E9	PY-BH6T7E9
8TB	7 200	SATA 6Gb/s	512e	S26361-F5638-E800	S26361-F5638-L800
12TB	7 200	SATA 6Gb/s	512e	PYBBHCT7E4	PY-BHCT7E4
14TB	7 200	SATA 6Gb/s	512e	PYBBHET7E4	PY-BHET7E4
16TB	7 200	SAS 12Gb/s	512e	S26361-F3904-E160	S26361-F3904-L160
18TB	7 200	SAS 12Gb/s	512e	PYBBHJT7E2	PY-BHJT7E2

max. 4x - depending on base unit & configuration

M.2 SATA SSD

SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot		S26361-F5816-E240	S26361-F5816-L240

M.2 drive is designed for use as a VMware ESXi boot drive.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 1x per Server; in case M.2 drive is installed in connector located on Motherboard (Port1: 2242 or 2280; Port2: 2280 or 22110). VMware ESXi is only supported.
 2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

M.2 drive for VMware ESXi and for other OSs cannot be mixed

SSD SATA M.2 drive for booting, non hot-plug							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot		S26361-F5787-E240	S26361-F5787-L240
480GB	M.2	SATA 6Gb/s	1,5	Boot		S26361-F5787-E480	S26361-F5787-L480
960GB	M.2 2280	SATA 6Gb/s	1,5	Boot		PYBMF96YN	PY-MF96YN

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 2x per Server; in case M.2 drive is installed in connector located on Motherboard (Port1: 2242 or 2280; Port2: 2280 or 22110). VMware is not supported.
 2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

Dual M.2

Dual microSD, PDUAL CP100, PDUAL CP300 and M.2 drive on Motherboard cannot be mixed

PDUAL CP100, dual M.2 for booting, non hot-plug							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
n/a	AIC	PCIe		Boot LP		PYBDMCP24L	PY-DMCP24

PDUAL CP100 is a carrier 2x M.2 SATA modules and offers RAID1 with 2x M.2 modules.
 PDUAL CP100 is designed for use as a Hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAID.
 Supported RAID level : RAID1 only, 2x M.2 modules need to be ordered separately.
 Supported M.2 Modules : SSD SATA M.2 240GB/480GB, and 240GB for VMware ESXi. (S26361-F5787-E240/L240/E480/L480 or S26361-F5816-E240/L240)
Windows 2022 support:
 For PY-DMCP24, Firmware Package 2.3.21.2009 or later is required. PYBDMCP24L is shipped with the required Firmware Package
 To manage the CP100 in Windows 2022, iRMC 3.39P or later is required
 max. 1x per Server, requires 2x SSD SATA M.2 drives.

RAID PRESET option							
Component						order code E-part	order code L-part
pre-config. RAID1 Array for M.2 in PDUAL						S26361-F5659-E13	-

This option allows pre-configuration of 2x M.2 modules to a RAID1 Array with PDUAL CP100 ex factory.
 max. 1x per Server, requires 1x PDUAL CP100.

PDUAL CP100, PDUAL CP300 and M.2 drive on Motherboard cannot be mixed

PDUAL CP300, dual M.2 for booting, non hot-plug -Cancelled-							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
n/a	AIC	PCIe		Boot LP		PYBDMCP35L	PY-DMCP35

PDUAL CP300 is a carrier of 2x SSD SATA M.2 drives, which offers RAID1 with the 2x SSD M.2 drives.
 PDUAL CP300 is designed for use as a hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAID.
 Supported RAID levels : RAID1 and 0 (optional), 2x same type of SSD M.2 drives need to be ordered separately.
 Supported M.2 drives : SSD SATA M.2 240GB/480GB/960GB or 240GB for VMware ESXi. (S26361-F5787- E240/L240/E480/L480, PY*MF96YN or S26361-F5816-E240/L240)
 max. 1x per Server, requires 2x SSD M.2 drives.

Dual microSD

Dual microSD and M.2 drive cannot be mixed

Dual microSD Enterprise for booting, non hot-plug, for VMware ESXi - EOL -							
Capacity	Formfactor	Interface	DWPD	Category		order code E-part	order code L-part
64GB	microSD	USB		Boot		S26361-F4045-E64	S26361-F4045-L64

Dual microSD is designed for use as a VMware ESXi boot drive. Only the standardly equipped microSD are supported.
 Dual microSD offers Hardware-mirrored (RAID1) flash boot device for VMware ESXi, which cannot be supported by M.2.
 vSAN can be booted in case ESXi host has 512 GB of memory or less. Even in case 512 GB or more, if vSAN is 6.5 or later, it can be booted by resizing the core dump partition on ESXi hosts. For more information, see the VMware knowledge base article at <http://kb.vmware.com/kb/2147881>.
 max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

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2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs are either connected directly via onboard connector or indirectly via RAID Controller card
 *hot plug support : supported with VMD excluding VMware VMware ESXi 7.0 can support the Native PCI hotplug with non VMD

PCIe-SSD 2.5" P5800X (SFF) Enterprise with hot plug/hot replace tray							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		PYBBS40PF	PY-BS40PF
800GB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		PYBBS80PF	PY-BS80PF
1.6TB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		PYBBS16PF	PY-BS16PF

max. 10x - depending on base unit & configuration

EOL, as long as stock available

PCIe-SSD 2.5" P4800X (SFF) Enterprise with hot plug/hot replace tray							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
750GB	2.5" (SFF)	PCIe3.0 x4	Write Intensive	30		S26361-F5719-E750	S26361-F5719-L750

max. 10x - depending on base unit & configuration

limitation : can not support VMD / VROC

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray based on Kioxia CM7-V drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3		PYBBS16PDB	PY-BS16PDB
3.2TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3		PYBBS32PDB	PY-BS32PDB
6.4TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3		PYBBS64PDB	PY-BS64PDB
12.8TB	2.5" (SFF)	PCIe5.0 x4	Mixed Use	3		PYBBS12PDB	PY-BS12PDB

max. 10x - depending on base unit & configuration

EOL, as long as stock available

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray based on Kioxia CM6-V drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		PYBBS16PD6	PY-BS16PD6
3.2TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		PYBBS32PD6	PY-BS32PD6
6.4TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		PYBBS64PD6	PY-BS64PD6
12.8TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		PYBBS12PD6	PY-BS12PD6

max. 10x - depending on base unit & configuration

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray [EOL] as long as stock available based on Intel DC P4610 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	4,1		S26361-F5737-E160	S26361-F5737-L160
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3,7		S26361-F5737-E320	S26361-F5737-L320
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3,1		S26361-F5737-E640	S26361-F5737-L640

max. 10x - depending on base unit & configuration

limitation : can not support VMD / VROC

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray based on Kioxia CM7-R drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.92TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1		PYBBS19PEA	PY-BS19PEA
3.84TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1		PYBBS38PEA	PY-BS38PEA
7.68TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1		PYBBS76PEA	PY-BS76PEA
15.36TB	2.5" (SFF)	PCIe5.0 x4	Read Intensive	1		PYBBS15PEB	PY-BS15PEB

max. 10x - depending on base unit & configuration

EOL, as long as stock available

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray based on Kioxia CM6-R drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		PYBBS96PE6	PY-BS96PE6
1.92TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		PYBBS19PE6	PY-BS19PE6
3.84TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		PYBBS38PE6	PY-BS38PE6
7.68TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		PYBBS76PE6	PY-BS76PE6
15.36TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		PYBBS15PE6	PY-BS15PE6

max. 10x - depending on base unit & configuration

PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray* [EOL] as long as stock available based on Intel DC P4510 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	1,0		S26361-F5738-E100	S26361-F5738-L100
2TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0,7		S26361-F5738-E200	S26361-F5738-L200
4TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0,8		S26361-F5738-E400	S26361-F5738-L400

max. 10x - depending on base unit & configuration

EDSFF SSD

EDSFF PCIe-SSDs are not connected via RAID Controller card **EOL, as long as stock available**
PYBE140PE/PY-E140PE support the WindowsServer 2016 with VMD=enable setting

PCIe-SSD E1.S Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Intel DC P4511 drives							
<i>Capacity</i>	<i>Formfactor</i>	<i>Interface</i>	<i>Endurance</i>	<i>DWPD</i>		<i>order code E-part</i>	<i>order code L-part</i>
4TB	E1.S	PCIe3.0 x4	Read Intensive	0,46		PYBE140PE	PY-E140PE
max. 32x - depending on base unit & configuration							

AIC PCIe-SSD

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Chapter 11 - LAN Components

Refer to Thermal Rule for thermal restriction

OCPv3 LoM Adapter

Broadcom 1GbE BASE-T for OCPv3

PLAN CP N41T 4X 1000BASE-T OCPv3 PT	2x	Broadcom, 1GTx4port	PYBLA284U	PY-LA284U
max. 2 adapters per system				

Intel 1GbE BASE-T for OCPv3

PLAN CP I350-T4 4X 1000BASE-T OCPv3 PT	2x	Intel, 1GTx4port *WoL cannot be supported.	PYBLA274U	PY-LA274U
max. 2 adapters per system				

Broadcom 10GbE BASE-T for OCPv3

PLAN EP N210TP 2X 10GBASE-T OCPv3 PT	2x	Broadcom, 10Gtx2port	PYBLA3K2U	PY-LA3K2U
max. 2 adapters per system				

Intel 10GbE BASE-T for OCPv3

PLAN EP X710-T2L 2X 10GBASE-T OCPv3 PT	2x	Intel, 10Gtx2port	PYBLA342U	PY-LA342U
PLAN EP X710-T4L 4X 10GBASE-T OCPv3 PT	2x	Intel, 10Gtx4port	PYBLA344U	PY-LA344U
max. 2 adapters per system				

Broadcom 10GbE for OCPv3

Each cage consumes 1x optical SFP+ transceiver per port.
Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules.
All ports on this card need to install the same Parts Number of optical module.

PLAN EP N210P 2X 10G SFP+ OCPv3 PT	2x	Broadcom, 10Gx2port	PYBLA3J2U	PY-LA3J2U
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Optional, 10Gb SFP+ optical transceiver module, select one per cage

SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				

max. 2x per system

Intel 10GbE for OCPv3

Each cage consumes 1x optical SFP+ transceiver per port.
Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules.
All ports on this card need to install the same Parts Number of optical module.

PLAN EP X710-DA2 2X 10G SFP+ OCPv3 PT	2x	Intel, 10Gx2port	PYBLA352U	PY-LA352U
PLAN EP X710-DA4 4X 10G SFP+ OCPv3 PT	2x	Intel, 10Gx4port	PYBLA354U	PY-LA354U

Optional, 10Gb SFP+ optical transceiver module, select one per cage

SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	4x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	4x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	4x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				

max. 2 adapters per system

Intel 25GbE for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP E810-XXVDA2 2X 25G SFP28 OCPv3 PT	2x	Intel, 25Gx2port *AOC and 10G SFP cannot be supported.	PYBLA402U	PY-LA402U
PLAN EP E810-XXVDA4 4X 25G SFP28 OCPv3 PT	2x	Intel, 25Gx4port *AOC and 10G SFP cannot be supported.	PYBLA404U	PY-LA404U
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 25G SR E25GSFP28SRX LC	4x	Intel, 25G SR SFP28	PYBSFSP56	PY-SFSP56
SFP28 25G LR E25GSFP28LRX LC	4x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	4x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	4x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	4x			E:JNPSFP-25GDACxML (x:1,3)
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	4x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	4x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	4x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	4x			E:QFX-SFP-DAC-xML (x:1,3)
<i>max. 1x per port</i>				
<i>max. 2 adapters per system</i>				
Mellanox 25GbE for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP MCX4-LX 2X 25G SFP28 OCPv3 PT	2x	Mellanox, 25Gx2port *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] *AOC cannot be supported. *ATD40/45 cannot be supported.	PYBLA3F2U	PY-LA3F2U
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	Mellanox, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
SFP28 25G LR MMA2L20-AR LC	2x	Mellanox, 25G LR SFP28	PYBSFPL10	PY-SFPL10
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+		S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+		S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	2x			E:JNPSFP-25GDACxML (x:1,3)
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	2x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	2x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	2x			E:QFX-SFP-DAC-xML (x:1,3)
<i>max. 1x per port</i>				
<i>max. 2 adapters per system</i>				

Intel 100GbE for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3 PT	2x	Intel, 100Gx2port *AOC cannot be supported.	PYBLA432U	PY-LA432U
Optional, 100Gb QSFP28 Optical Transceiver module				
QSFP28 100G SR4 E100GQSFP28SRX MPO	2x	Intel, 100G SR4 QSFP28	PYBSFSP54	PY-SFSP54
QSFP28 100G LR4 FTLC1154RDPL LC *1	2x	II-VI, 100G LR4 QSFP28	PYBSFPL08	PY-SFPL08
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
<i>max. 1x per port</i>				
max. 2 adapters per system				

*1 Max RAM size in a system must be up to 64GB when using this optics due to thermal restriction

Mellanox 100GbE for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP MCX6-DX 2X 100G QSFP28 OCPv3 PT	2x	Mellanox, 100Gx2port *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] *AOC cannot be supported.	PYBLA412U	PY-LA412U
Optional, 100Gb QSFP28 Optical Transceiver module				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	Mellanox, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	Mellanox, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
<i>max. 1x per port</i>				
max. 2 adapters per system				

PCIe Adapter

Broadcom 1GbE BEASE-T for PCIe				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	3x	Broadcom, 1GTx4port	PYBLA284L	PY-LA284
max. 3 adapters per system				

Intel 1GbE BEASE-T for PCIe				
PLAN CP 4x1Gbit Cu Intel i350-T4 LP	3x	Intel, 1GTx4port	S26361-F4610-E204	S26361-F4610-L504
max. 3 adapters per system				

Broadcom 10GbE BEASE-T for PCIe				
PLAN EP P210TP 2X 10GBASE-T PCIe LP	3x	Broadcom, 10GTx2port	PYBLA3K2L	PY-LA3K2
max. 3x adapters per system				

Intel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2X 10GBASE-T LP	3x	Intel, 10GTx2port	PYBLA342L	PY-LA342
PLAN EP X710-T4L 4X 10GBASE-T LP	3x	Intel, 10GTx4port	PYBLA344L	PY-LA344
max. 3x adapters per system				

Broadcom 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP P210P 2x10Gb SFP PCIe LP	3x	Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 3x adapters per system				

Intel 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP X710-DA2 2x10Gb SFP+ LP	3x	Intel, 10Gx2port	S26361-F3640-E202	S26361-F3640-L502
PLAN EP X710-DA4 4x10Gb SFP+ LP	3x	Intel, 10Gx4port	S26361-F3640-E204	S26361-F3640-L504
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	4x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	4x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	4x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 3x adapters per system				

Intel 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP E810-XXVDA2 2X 25G SFP28 LP	3x	Intel, 25Gx2port *AOC and 10G SFP cannot be supported.	PYBLA402L	PY-LA402
PLAN EP E810-XXVDA4 4X 25G SFP28 LP	3x	Intel, 25Gx4port *AOC and 10G SFP cannot be supported.	PYBLA404L	PY-LA404
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 25G SR E25GSFP28SRX LC	4x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	4x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
max. 1x per port				

Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	4x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	4x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	4x			E:JNPSFP-25GDACxML (x:1,3)
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	4x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	4x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	4x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	4x			E:QFX-SFP-DAC-xML (x:1,3)
max. 1x per port				
max. 3x adapters per system				

Mellanox 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP MCX4-LX 2X 25G SFP28 LP	3x	Mellanox 25x2port *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] *AOC cannot be supported. *ATD40/45 cannot be supported.	S26361-F4054-E202	S26361-F4054-L502
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	Mellanox, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
SFP28 25G LR MMA2L20-AR LC	2x	Mellanox, 25G LR SFP28	PYBSFPL10	PY-SFPL10
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+		S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+		S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	2x			E:JNPSFP-25GDACxML (x:1
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	2x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	2x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	2x			E:QFX-SFP-DAC-xML (x:1,3)
<i>max. 1x per port</i>				
<i>max. 3x adapters per system</i>				
Intel 100GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP E810-CQDA2 2X 100G QSFP28 LP	3x	Intel, 100Gx2port *AOC and QSFP cannot be supported.	PYBLA432L	PY-LA432
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
<i>max. 1x per port</i>				
<i>max. 3x adapters per system</i>				
Mellanox 100GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box. All ports on this card need to install the same Parts Number of optical module.				
PLAN EP MCX6-DX 2X 100G QSFP28 LP	3x	Mellanox, 100Gx2port *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] *AOC cannot be supported.	PYBLA412L	PY-LA412
Optional, 100Gb QSFP28 Optical Transceiver module				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	Mellanox, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	Mellanox, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
<i>max. 1x per port</i>				
<i>max. 3x adapters per system</i>				

Network cables for later upgrade

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Chapter 12 - Fibre Channel Adapters

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64G Fibre Channel adapters with LC interface for optical cables				
PFC EP LPe36000 1X 64GFC PCIe v4 LP	3x	Broadcom, 64FCx1port	PYBFC441L	PY-FC441
PFC EP LPe36002 2X 64GFC PCIe v4 LP	3x	Broadcom, 64FCx2port	PYBFC442L	PY-FC442
PFC EP QLE2870 1X 32GFC PCIe v4 LP	3x	Marvell, 64FCx1port	PYBFC431L	PY-FC431
PFC EP QLE2872 2X 32GFC PCIe v4 LP	3x	Marvell, 64FCx2port	PYBFC432L	PY-FC432
32G Fibre Channel adapters with LC interface for optical cables				
PFC EP LPe35000 1X 32GFC PCIe v4 LP	3x	Broadcom, 32FCx1port	PYBFC421L	PY-FC421
PFC EP LPe35002 2X 32GFC PCIe v4 LP	3x	Broadcom, 32FCx2port	PYBFC422L	PY-FC422
PFC EP QLE2770 1X 32GFC PCIe v4 LP	3x	Marvell, 32FCx1port	PYBFC411L	PY-FC411
PFC EP QLE2772 2X 32GFC PCIe v4 LP	3x	Marvell, 32FCx2port	PYBFC412L	PY-FC412
16G Fibre Channel adapters with LC interface for optical cables				
PFC EP LPe31000 1x 16Gb LP	3x	Broadcom, 16FCx1port	S26361-F5596-E201	S26361-F5596-L501
PFC EP LPe31002 2x 16Gb LP	3x	Broadcom, 16FCx2port	S26361-F5596-E202	S26361-F5596-L502
PFC EP QLE2690 1x 16Gb LP	3x	Marvell, 16FCx1port	S26361-F5580-E201	S26361-F5580-L501
PFC EP QLE2692 2x 16Gb LP	3x	Marvell, 16FCx2port	S26361-F5580-E202	S26361-F5580-L502
max. 3 adapters per system				

Chapter 13 - Infiniband Adapters

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #ADD8E6;"><th>S26361-F5756-L102</th></tr> <tr style="background-color: #ADD8E6;"><th>S26361-F5756-E102</th></tr> <tr><td>IB HCA 200Gb 1channel HDR with PCI riser</td></tr> <tr><td>200Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser</td></tr> <tr><td>*cannot be selected with PLAN EP MCX4-LX</td></tr> <tr><td>25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]</td></tr> <tr><td>**AOC cannot be supported</td></tr> <tr><td>1x Q-SFP+ connector</td></tr> <tr><td>PCIe Gen4 x16 LP Card, 170mm</td></tr> <tr><td>max. 2x per system</td></tr> </table>	S26361-F5756-L102	S26361-F5756-E102	IB HCA 200Gb 1channel HDR with PCI riser	200Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser	*cannot be selected with PLAN EP MCX4-LX	25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]	**AOC cannot be supported	1x Q-SFP+ connector	PCIe Gen4 x16 LP Card, 170mm	max. 2x per system	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #ADD8E6;"><th>PY-HC402</th></tr> <tr style="background-color: #ADD8E6;"><th>PYBHC402</th></tr> <tr><td>IB HCA 200Gb 2channel HDR with PCI riser</td></tr> <tr><td>200Gbit 2channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser</td></tr> <tr><td>*cannot be selected with PLAN EP MCX4-LX</td></tr> <tr><td>25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]</td></tr> <tr><td>**AOC cannot be supported</td></tr> <tr><td>2x Q-SFP+ connector</td></tr> <tr><td>PCIe Gen4 x16 LP Card, 170mm</td></tr> <tr><td>max. 2x per system</td></tr> </table>	PY-HC402	PYBHC402	IB HCA 200Gb 2channel HDR with PCI riser	200Gbit 2channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser	*cannot be selected with PLAN EP MCX4-LX	25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]	**AOC cannot be supported	2x Q-SFP+ connector	PCIe Gen4 x16 LP Card, 170mm	max. 2x per system
S26361-F5756-L102																					
S26361-F5756-E102																					
IB HCA 200Gb 1channel HDR with PCI riser																					
200Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser																					
*cannot be selected with PLAN EP MCX4-LX																					
25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]																					
**AOC cannot be supported																					
1x Q-SFP+ connector																					
PCIe Gen4 x16 LP Card, 170mm																					
max. 2x per system																					
PY-HC402																					
PYBHC402																					
IB HCA 200Gb 2channel HDR with PCI riser																					
200Gbit 2channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser																					
*cannot be selected with PLAN EP MCX4-LX																					
25Gb[S26361-F4054-L502/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]																					
**AOC cannot be supported																					
2x Q-SFP+ connector																					
PCIe Gen4 x16 LP Card, 170mm																					
max. 2x per system																					

For loose delivery and in Rack customizing

Cables for Mellanox 200Gbit Controller:	
S26361-F5747-L671	MELLANOX COP. CABLE, 200GB/S, QSFP, LSZH, 1M
S26361-F5747-L672	MELLANOX COP. CABLE, 200GB/S, QSFP, LSZH, 2M

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #FFFF00;"><th>S26361-F5724-L102</th></tr> <tr style="background-color: #FFFF00;"><th>S26361-F5724-E102</th></tr> <tr><td>IB HCA 100Gb 1channel HDR</td></tr> <tr><td>100Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser</td></tr> <tr><td>*cannot be selected with PLAN EP MCX4-LX</td></tr> <tr><td>25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]</td></tr> <tr><td>**AOC cannot besupported</td></tr> <tr><td>1x Q-SFP+ connector</td></tr> <tr><td>PCIe Gen4 x16 LP Card, 170mm</td></tr> <tr><td>max. 2x per system</td></tr> </table>	S26361-F5724-L102	S26361-F5724-E102	IB HCA 100Gb 1channel HDR	100Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser	*cannot be selected with PLAN EP MCX4-LX	25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]	**AOC cannot besupported	1x Q-SFP+ connector	PCIe Gen4 x16 LP Card, 170mm	max. 2x per system	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #FFFF00;"><th>S26361-F5724-L202</th></tr> <tr style="background-color: #FFFF00;"><th>S26361-F5724-E202</th></tr> <tr><td>IB HCA 100Gb 2channel HDR</td></tr> <tr><td>100Gbit 2channel Infiniband Controller HDR technology (8.0GT/s)</td></tr> <tr><td>*cannot be selected with PLAN EP MCX4-LX</td></tr> <tr><td>25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]</td></tr> <tr><td>**AOC cannot besupported</td></tr> <tr><td>2x Q-SFP+ connector</td></tr> <tr><td>PCIe Gen4 x16 LP Card, 170mm</td></tr> <tr><td>max. 2x per system</td></tr> </table>	S26361-F5724-L202	S26361-F5724-E202	IB HCA 100Gb 2channel HDR	100Gbit 2channel Infiniband Controller HDR technology (8.0GT/s)	*cannot be selected with PLAN EP MCX4-LX	25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]	**AOC cannot besupported	2x Q-SFP+ connector	PCIe Gen4 x16 LP Card, 170mm	max. 2x per system
S26361-F5724-L102																					
S26361-F5724-E102																					
IB HCA 100Gb 1channel HDR																					
100Gbit 1channel Infiniband Controller HDR technology (8.0GT/s) with PCI short riser																					
*cannot be selected with PLAN EP MCX4-LX																					
25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]																					
**AOC cannot besupported																					
1x Q-SFP+ connector																					
PCIe Gen4 x16 LP Card, 170mm																					
max. 2x per system																					
S26361-F5724-L202																					
S26361-F5724-E202																					
IB HCA 100Gb 2channel HDR																					
100Gbit 2channel Infiniband Controller HDR technology (8.0GT/s)																					
*cannot be selected with PLAN EP MCX4-LX																					
25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U]																					
**AOC cannot besupported																					
2x Q-SFP+ connector																					
PCIe Gen4 x16 LP Card, 170mm																					
max. 2x per system																					

For loose delivery and in Rack customizing

Cables for Mellanox 100Gbit Controller:	
S26361-F5748-E571	IB Cu Y-Cable 100Gb (To HDR SW), QSFP, 1 m,
max. 1ch / 2ch x per Controller	

M

Chapter 14 - Power supply unit, power cable, certifications, region kits

M

Power supply unit

modular redundant Power Supply

2nd PSU for redundancy				
occupies hot plug PSU slot, min. 1 / max. 2x per system				
input nominal voltage (AC): 100V-240V, max: 90V-264V; input dropout 10ms/100% load, 47Hz-63Hz				
500W platinum PSU	94% eff.		PYBPU501	PY-PU501
500W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V	PYBPU503	PY-PU503
900W platinum PSU	94% eff.		PYBPU902	PY-PU902
900W titanium PSU	96% eff.	nom. 220-240V, max. 180-264V	PYBPU901	PY-PU901
1600W platinum PSU	94% eff.		PYBPU163	PY-PU163
1600W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V	PYBPU165	PY-PU165
DC PSU				
1300W PSU DC	94% eff.	48V DC, powercode see below as soon as available	PYBPU131D	PY-PU131D
1600W PSU HVDC	94% eff.	380V DC, Connector type: Anderson Power Products Saf-D-Grid® Plug type APAC/JAPAN region only	PYBPU163D	PY-PU163D
DC-12V Path through Unit		Only for Japan region	PYBPU551D	PY-PU551D

Dummy module instead PSU

Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system	PYBDMPO3	-
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Power cord option for Rack Server, 1x per PSU

Cable powercord rack, 1.8m, black, IEC 320 C14 -> C13 (10A plug)	T26139-Y1968-E180	T26139-Y1968-L180
Cable powercord rack, 2.5m, black, IEC 320 C14 -> C13 (10A plug)	T26139-Y1968-E250	T26139-Y1968-L250
Cable powercord rack, 4m, black, IEC 320 C14 -> C13 (10A plug)	T26139-Y1968-E100	T26139-Y1968-L10
Cable powercord (USA) 15A, 1.8m, black, NEMA 5-15 connector 498G -> C13 (plug), 15A, , rack or wall	T26139-Y1741-E90	T26139-Y1741-L90
Cable powercord (Taiwan), 1.8m, rack or wall	T26139-Y1757-E10	T26139-Y1757-L10
Cable powercord -48V DC, 3m, black	PYBCBPDC4	PY-CBPDC4
Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey		T26139-Y1740-L10
Cable powercord (UK, IR), 1.8m, grey		T26139-Y1744-L10
Cable powercord (I), 1.8m, grey		T26139-Y1745-L10
Cable powercord (DK), 1.8m, grey		T26139-Y1746-L10
no power cord	T26139-Y3850-E10	

Region Kits, 1x per System

Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian and Welsh language need to be included always into the order from EU and EFTA (Sales region for EMEA only)	S26361-F1452-E140	
Region Kit APAC/EMEA/India, Contains warranty sheet and safety instructions for APAC, EMEA and India	S26361-F1452-E100	
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	S26361-F1452-E130	
Region Kit China for CCC systems, Contains warranty sheet and safety instructions for China, need to be included always into the order from China country (Sales region for APAC only)	S26361-F1452-E101	
Region Kit China for CCC option not required systems (N/A CCC systems for more than 1300W PSU or, systems printing CCC mark always), Contains warranty sheet and safety instructions for China, need to be included always into the order from China country (Sales region for APAC only)	S26361-F1452-E130	

Certifications, optional 1x per system

Certification for China, (CCC), Reduced component selection possible, only with no power cord option	S26361-F3301-E120	
Certification for India, (BIS), Reduced component selection possible, only with no power cord option	S26361-F3301-E123	

N

Chapter 15 - Accessories

N

<http://www.fujitsu.com/fts/products/computing/peripheral/accessories/index-facts.html>

USB Optical Disc Drive

External Ultra Slim Portable DVD Writer (Hitachi-LG)

S26341-F103-L142

O

Chapter 16 - Energy Star

O

as soon as available

as soon as available

S26361-F3301-E531
RX2530 Mx E-Star Fam1
Limits configuration in accordance with Energy Star requirements for systems with 1 CPU
max. 1x per system

S26361-F3301-E532
RX2530 Mx E-Star Fam2
Limits configuration in accordance with Energy Star requirements for systems with 2 CPU
max. 1x per system

<u>1 CPU Variant</u> not allowed are:	<div style="background-color: #f0f0f0; padding: 5px; text-align: center;">limitations for E-Star Fam1 certification</div> <ul style="list-style-type: none"> - 2 CPU configuration - 8GB DIMM - less than 4 DIMMs(min 4 is ok) - DCPMM (Barlow Pass) Memory Modules - more than 3x PCIe cards /OCPv3 cards (i.e. Raid, LAN, Fiberchannel, Infiniband card, ...) (max 3 is OK) - Graphics cards / GPGPU cards
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<u>2 CPU Variant</u> not allowed are:	<div style="background-color: #f0f0f0; padding: 5px; text-align: center;">limitations for E-Star Fam2 certification</div> <ul style="list-style-type: none"> - 1 CPU configuration - 8GB DIMM - less than 8 DIMMs (min 8 is ok) - DCPMM (Barlow Pass) Memory Modules - EDSFF SSD(32x EDSFF base unit PYR2536R6N) - more than 5x PCIe cards /OCPv3 cards (i.e. Raid, LAN, Fiberchannel, Infiniband card, ...) (max 5 is OK) - Graphics cards / GPGPU cards
--	--

ENERGY STAR-configurations with one CPU will be labeled:
ENERGY STAR-configurations with two CPU will be labeled:
non ENERGY STAR-configurationen will be labeled:

PRIMERGY RX2530 M6 E-Star Fam1
PRIMERGY RX2530 M6 E-Star Fam2
PRIMERGY RX2530 M6

P

Chapter 17 - ErP Lot 9 restriction

P

*Region kit Europe must be ordered for shipment to ship in EU and EFTA countries to apply ErP Lot9 restriction

Region Kits, 1x per System	
Region Kit APAC/EMEA/India, Contains warranty sheet and safety instructions for APAC, EMEA and India	S26361-F1452-E100
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	S26361-F1452-E130

Region Kits, 1x per System	
Region Kit Europe*, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian and Welsh language	S26361-F1452-E140

Restriction for ErP Lot 9 directive,
Not allowed:
- 8GB DIMM (for all base unit)
- 16GB DIMM (for 32xEDSFF base unit)

ErP Lot9 Restriction for 32GB DIMM with EDSFF base unit, 1x per System	
Erp Lot9 configuration 1	PYBETL1

ErP Lot9 Restriction for >=64GB DIMM with EDSFF base unit, 1x per System	
Erp Lot 9 configuration 2	PYBETL2

Restriction for ErP Lot 9 directive,
Not allowed: (For EDSFF base unit)
- 8, 16, 64GB or greater DIMM(Only 32GB allowed)
- NVIDIA P400
- External RAID/SAS controller
CP500e/EP540e/EP680e
- HCC CPUs (Only XCC CPUs allowed)
HCC CPU: Silver 4309Y, 4310, 4314, 4316

Restriction for ErP Lot 9 directive,
Not allowed: (For EDSFF base unit)
- 8, 16, 32GB DIMM

Q

Chapter 18 - Thermal Rule

Q

For CPU group, refer to Chapter3- CPU

3.5"/2.5" base unit (not including Rear drive bay and GPGPU)

CPU		Memory Type		Front / Rear drive bay			GPGPU NVIDIA	Option Card		Ambient Temp.	
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	14/A2/L4	PCIe	OCP		
1CPU configuration w/o CPU dummy	CPU A	8GB - 64GB	128GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-5	Tier1-8	35C	
	CPU B			Rear: N/A	Rear: N/A	Rear: 0					
	CPU C	Not support. Only 2CPU configuration available.									
	CPU D										
2CPU configuration 1CPU ** configuration w/ CPU dummy	CPU A	8GB - 128GB	128GB - 512GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-5	Tier1-8	35C	
	CPU B			Rear: N/A	Rear: N/A	Rear: 0					
	CPU C										
	CPU D										30C*

* Need to select Configuration Thermal Design 30°C(PYBETA1)

** Need to select CPU dummy(PYBDMC02) for 1CPU configuration

3.5"/2.5" base unit (including GPGPU)

CPU		Memory Type		Front / Rear drive bay			GPGPU NVIDIA	Option Card		Ambient Temp.	
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	14/A2/L4	PCIe	OCP		
1CPU configuration w/o CPU dummy	CPU A	8GB - 64GB	128GB	Front: 0-4	Front: 0-8	Front: 0-10	1-2	Level1-5	Tier1-9	30C*	
	CPU B			Rear: N/A	Rear: N/A	Rear: 0					
	CPU C	Not support. Only 2CPU configuration available.									
	CPU D	Not support.									
2CPU configuration 1CPU ** configuration w/ CPU dummy	CPU A	8GB - 64GB	128GB	Front: 0-4	Front: 0-8	Front: 0-10	1-3	Level1-5	Tier1-9	30C*	
	CPU B			Rear: N/A	Rear: N/A	Rear: 0					
	CPU C										
	CPU D	Not support.									

* Need to select Configuration Thermal Design 30°C(PYBETA1)

3.5"/2.5" base unit (including Rear drive bay)

CPU		Memory Type		Front / Rear drive bay			GPGPU NVIDIA	Option Card		Ambient Temp.	
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	14/A2/L4	PCIe	OCP		
1CPU configuration w/o CPU dummy	CPU A	Not support. Only 2CPU configuration available.									
	CPU B										
	CPU C	Not support.									
	CPU D										
2CPU configuration 1CPU ** configuration w/ CPU dummy	CPU A	Max.16x	Not support	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-5	Tier1-9	30C*	
	CPU B	64GB RDIMM, 8GB - 32GB		Rear: N/A	Rear: N/A	Rear: 1-2					
	CPU C	Not support.									
	CPU D										

* Need to select Configuration Thermal Design 30°C(PYBETA1)

** Need to select CPU dummy(PYBDMC02) for 1CPU configuration

3.5"/2.5" base unit (including Level6-7 PCIe cards or Tier10-12 OCP)

CPU		Memory Type		Front / Rear drive bay			GPGPU	Level6-7 PCIe	Option Card		Ambient Temp.
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	NVIDIA T4/A2/L4	Tier10-12 OCP	PCIe	OCP	
1CPU configuration w/o CPU dummy	CPU A	Not support. Only 2CPU configuration available.									
	CPU B										
	CPU C										
	CPU D										
2CPU configuration 1CPU ** configuration w/ CPU dummy	CPU A	8GB - 128GB	128GB	Front: 0-4	Front: 0-8	Front: 0-10	0	PCIe: 1-3 OCP:1-2	Level1-7	Tier1-12	30C*
	CPU B			Rear: N/A	Rear: N/A	Rear: 0					
	CPU C										
	CPU D										

* Need to select Configuration Thermal Design 30°C(PYBETA1)

** Need to select CPU dummy(PYBDMC02) for 1CPU configuration

3.5"/2.5" base unit (ATD40)

CPU		Memory Type	Front / Rear drive bay			GPGPU	Option Card		Ambient Temp.	
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	NVIDIA 14/A2/L4	PCIe	OCP	
1CPU configuration w/o CPU dummy	CPU A	Not support. Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8 GB - 64GB	Not support	Front: 0-2 Rear: N/A	Front: 0-4 Rear: N/A	Front: 0-4 Rear: N/A	N/A	Level1-4	Tier1-6	40C
	CPU B									
1CPU** configuration w/ CPU dummy	CPU C	Not support.								
	CPU D									

** Need to select CPU dummy(PYBDMC02) for 1CPU configuration

3.5"/2.5" base unit (ATD45)

CPU		Memory Type	Front / Rear drive bay			GPGPU	Option Card		Ambient Temp.	
		DDR4	DCPMM	4x3.5"	8x2.5"	10x2.5"	NVIDIA 14/A2/L4	PCIe	OCP	
1CPU configuration w/o CPU dummy	CPU A	Not support. Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8 GB - 32GB	Not support	Front: 0-2 Rear: N/A	Front: 0-4 Rear: N/A	Front: 0-4 Rear: N/A	N/A	Level1-4	Tier1-5	45C
	CPU B									
1CPU** configuration w/ CPU dummy	CPU C	Not support.								
	CPU D									

** Need to select CPU dummy(PYBDMC02) for 1CPU configuration

EDSFF base unit (not including Rear drive bay and GPGPU)

CPU		Memory Type	Front / Rear drive bay		GPGPU	Option Card		Ambient Temp.
		DDR4	DCPMM	32x EDSFF	NVIDIA 14/A2/L4	PCIe	OCP	
1CPU configuration	CPU A	Not support. Only 2CPU configuration available.						
	CPU B							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 128GB	128GB - 512GB	Front: 0-32 Rear: N/A	0	Level1-5	Tier1-7	35C
	CPU B							
	CPU E							
	CPU F							

* Need to select Configuration Thermal Design 30°C(PYBETA1)

EDSFF base unit (including GPGPU)

CPU		Memory Type	Front / Rear drive bay		GPGPU	Option Card		Ambient Temp.
		DDR4	DCPMM	32x EDSFF	NVIDIA 14/A2/L4	PCIe	OCP	
1CPU configuration	CPU A	Not support. Only 2CPU configuration available.						
	CPU B							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 0-32 Rear: N/A	1-3	Level1-5	Tier1-8	30C*
	CPU B							
	CPU E							
	CPU F							

* Need to select Configuration Thermal Design 30°C(PYBETA1)

R

Option card: PCIe Level for Thermal condition

Card		Product Number	PCIe Level
RAID/SAS	PSAS CP503i HBA SAS Contr.	PYBSC3FBVL / PYBSR3FBVL	Level2
	PSAS CP 2100-8i LP	PYBSC3MA2L / PYBSC3MAVL	Level3
	PRAID CP500i RAID Contr.	PYBSR3FBVL	Level2
	PRAID EP520i RAID Contr. LP	S26361-F4042-E202	Level3
	PRAID EP540i RAID LP	S26361-F4042-E214 / -E224	Level3
	PRAID EP580i RAID LP	S26361-F4042-E208 / -E228	Level3
	PSAS CP600i LP	PYBSC4FAL / PYBSC4FAVL	Level3
	PRAID CP600i LP	PYBSR4FAL	Level3
	PRAID EP640i LP	PYBSR4C63L	Level3
	PRAID EP680i RAID LP	PYBSR4C6L / PYBSR4C62L	Level3
	PRAID EP3252-8i LP	PYBSR4MA1L	Level4
	PRAID EP3254-8i LP	PYBSR4MA2L	Level4
	PRAID EP3258-16i LP / NVMe LP	PYBSR4MA3L / PYBSR4MA4L	Level4
	PRAID CP500e RAID Contr. LP	PYBSC3FBEL	Level2
	PRAID EP540e RAID Contr. LP	S26361-F4063-E204	Level3
	PSAS CP600e LP	PYBSC4FAEL	Level3
	PRAID EP680e RAID Contr. LP	PYBSR4C6EL	Level3
	PRAID EP680e RAID Contr. LP	PYBSR4C6EL	Level3
	PDUAL CP100	PYBDMCP24L	Level4
	LAN/FC/IB	PFC EP LPE31000 1X 16GB EMULEX	S26361-F5596-E201
PFC EP LPE31002 2X 16GB EMULEX		S26361-F5596-E202	Level3
PFC EP LPe35000 1X 32GFC PCIe v4 LP		PYBFC421L	Level3
PFC EP LPe35002 2X 32GFC PCIe v4 LP		PYBFC422L	Level3
PFC EP LPe36000 1X 64GFC PCIe v4 LP		PYBFC441L	Level4
PFC EP LPe36002 2X 64GFC PCIe v4 LP		PYBFC442L	Level4
PFC EP QLE2770 1X 32GFC PCIe v4 LP		PYBFC411L	Level4
PFC EP QLE2772 2X 32GFC PCIe v4 LP		PYBFC412L	Level4
PFC EP QLE2690 1x 16Gb LP		S26361-F5580-E201	Level3
PFC EP QLE2692 2x 16Gb LP		S26361-F5580-E202	Level3
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP		PYBLA284L	Level1
PLAN EP P210P 2x10Gb SFP PCIe LP		PYBLA3J2L	Level3
PLAN EP P210TP 2X 10GBASE-T PCIe LP		PYBLA3K2L	Level5
PLAN CP 4x1Gbit Cu Intel I350-T4 FH		S26361-F4610-E204	Level1
PLAN EP X710-T2L 2X 10GBASE-T LP		PYBLA342L	Level2
PLAN EP X710-T4L 4X 10GBASE-T LP		PYBLA344L	Level2
PLAN EP X710-DA2 2x10Gb SFP+ LP		S26361-F3640-E202	Level1
PLAN EP X710-DA4 4x10Gb SFP+ LP		S26361-F3640-E204	Level3
PLAN EP E810-XXVDA2 2X 25G SFP28 LP		PYBLA402L	Level2
PLAN EP E810-XXVDA4 4X 25G SFP28 LP		PYBLA404L	Level4
PLAN EP E810-CQDA2 2X 100G QSFP28 LP		PYBLA432L	Level4
PLAN EP MCX4-LX 2X 25G SFP28 LP		S26361-F4054-E202	Level4
PLAN EP MCX6-DX 2X 100G QSFP28 LP		PYBLA412L	Level7
IB HCA 200Gb 1channel HDR		S26361-F5756-E102	Level4
IB HCA 200Gb 2channel HDR		PYBHC402	Level5
IB HCA 100Gb 1channel HDR		S26361-F5724-E102	Level4
IB HCA 100Gb 2channel HDR		S26361-F5724-E202	Level4

Option card: OCP Tier for Thermal condition

Card		Product Number	OCP Tier
OCPv3	PLAN CP N41T 4X 1000BASE-T OCPV3	PYBLA284U	Tier2
	PLAN EP N210P 2X 10G SFP+ OCPV3	PYBLA3J2U	Tier2
	PLAN EP N210TP 2X 10GBASE-T OCPV3	PYBLA3K2U	Tier5
	PLAN CP I350-T4 4X 1000BASE-T OCPv3	PYBLA274U	Tier1
	PLAN EP X710-T2L 2X 10GBASE-T OCPv3	PYBLA342U	Tier2
	PLAN EP X710-T4L 4X 10GBASE-T OCPv3	PYBLA344U	Tier3
	PLAN EP X710-DA2 2X 10G SFP+ OCPv3	PYBLA352U	Tier1
	PLAN EP X710-DA2 2X 10G SFP+ OCPv3	PYBLA354U	Tier1
	PLAN EP E810-XXVDA2 2X 25G SFP28 OCPv3	PYBLA402U	Tier3
	PLAN EP E810-XXVDA4 4X 25G SFP28 OCPv3 PT	PYBLA404U	Tier7
	PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3	PYBLA432U	Tier3
	PLAN EP MCX4-LX DA2 2X 25G SFP28 OCPv3	PYBLA3F2U	Tier3
	PLAN EP MCX6-DX 2X 100G QSFP28 OCPv3	PYBLA412U	Tier12

S

Chapter 19 - others

S

S26361-F1790-E243
S26361-F1790-L244 (Sales region except for APAC)
S26361-F1790-L264 (Sales region for APAC only)
iRMC advanced pack
integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

Advanced Thermal design cannot be combined with the Flash backup unit of the RAID controllers

PYBLCM13 embedded Lifecycle Management (eLCM)
Server Online Update OS driver Update Hardware firmware update
Server Offline Update Hardware update via Update Manager Express
PrimeCollect Autonomous creation of Primecollect archives Creation and use of PrimeCollect archives over AIS connect
Custom Image (Jukebox function) Automatic and manual download of CD and DVD Images Automatic and manual start of CD and DVD Images
max. 1x per system

Loose delivery
eLCM Activation Pack (Node Locked License)
PY-LCM13
options contains:
- Paper with TAN for Licensekey

will be available in CQ2'24			
iRMC MicroSD card option			
Capacity	Interface	E-parts	L-parts
32GB	SDHC	-	PY-MD32R1
max. 1x per system, instead of 16GB MicroSD card			

S26361-F3776-E440
Cool-safe @ Advanced Thermal design 40°C
enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

S26361-F3776-E445
Cool-safe @ Advanced Thermal design 45°C
enables the PRIMERGY Server to cope with temperatures from 5-45° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

PYBETA1
Configuration Thermal Design 30°C(CTD30)
Sets the PRIMERGY server to support temperatures of up to 30 ° C in operating mode for the configuration with thermal restriction.
Refer to Chapter15-Thermal Rule
this setting can be activated ex factory only
max. 1x per system

 **TPM module must not order for China region.**

PYBTPM14 PY-TPM14
TPM 2.0 Module SPI
Either PYBTPM14, PY-TPM14, or PYBNTPM is required for Windows Server 2022
max. 1x per system

PYBNTPM
No TPM for WINSVR
Either PYBTPM14 or PYBNTPM has to be chosen in ordering Windows Server 2022 OEM
max. 1x per system

When Windows Server 2022 is used as a host OS, PYBTPM14, PY-TPM14 is required. This requirement, however, can be waived if the end customer expresses their desire to configure the server system without a TPM. In that case, No TPM for WINSVR can be selected. When Windows Server 2022 is used as a guest OS, TPMs are not necessary.

S26361-F3552-E100/L100 are EOL at end-Sep 2022. PYBTPM14/PY-TPM14 are currently available

PYBCOM07 PY-COM07
serial port (RS232)
serial port (RS232) mounted on a low profile PCIe slot
max. 1x per system

PYBFOP06 PYBFOP06
1U Front Bezel
max. 1x per system

Your Server is ready

Date of change [yyyy/mm/dd]	Configurator revision	Folder / order code / description	What has been changed / comment	Name
27.03.2024	1.146	HDD_SSD	updated availability schedules	Y. Sugiyama
25.03.2024	1.145	others	revised the description about iRMC MicroSD card option for eLCM	Y. Sugiyama
04.03.2024	1.144	others	remove PY-TPM20 and PYBTM20 add information	KonnoH
16.02.2024	1.143	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
09.02.2024	1.142	HDD_SSD	cancelled PDUAL CP300	T.Sudou
19.01.2024	1,141	LAN_FC_IB	remove restriction of N210P because appropriate iRMC FW is implemented at factories. remove out of date description	F. Kanega
16.01.2024	1.140	HDD_SSD	removed availability schedules for PCIe-SSD "Kioxia CM7"	Y. Sugiyama
26.12.2023	1,139	HDD_SSD	removed the restriction for SSD SAS "Kioxia PM7" added the restriction for SSD PCIe "Kioxia CM7"	Y. Sugiyama
30.11.2023	1,138	Description	eLCM is added to recommended components	J. ZHAO
06.11.2023	1,137	RAID	updated Note for onboard SATA SW-RAID	T.Sudou
01.11.2023	1.136	HDD_SSD	added the restriction about HBA/RAID for Kioxia PM7 updated availability schedules	Y. Sugiyama
19.10.2023	1.135	-	change font	J.Zhao
19.10.2023	1.135	CPU	Revised the description of cooling kit.	J.Zhao
18.10.2023	1,134	RAID, HDD_SSD	added SLES15 SP5 to OS support matrix for SW-RAID updated availability schedules	T.Sudou
13.10.2023	1.133	HDD_SSD	updated the EOL information for PCIe-SSD	Y. Sugiyama
02.10.2023	1.132	others	Add new TPM, Remove EOL TPM	Konno, H
22.09.2023	1.131	HDD_SSD	updated availability schedules	Y. Sugiyama
08.09.2023	1.130	HDD_SSD	removed the 1.92TB/3.84TB from Kioxia PM7 (it is my mistakes) added EOL status for P4511 E1.S	Y. Sugiyama
07.09.2023	1,129	HDD_SSD	added the EOL status for HDD SAS 15K, HDD 2.5" BC-SATA/SAS and P4800X	Y. Sugiyama
04.09.2023	1,128	HDD_SSD	updated availability schedules for SSD SAS "PM7" and M.2 SATA 960GB	Y. Sugiyama
30.08.2023	1,127	LAN_FC_IB	Remove Broadcom 10G OCPv3 SFP, N210P due to the iRMC error message issue.	F. Kanega
07.08.2023	1,126	HDD_SSD	updated availability schedules	T.Sudou
07.08.2023	1,126	RAID	added RHEL 8.8 and 9.2 to OS support matrix for SW-RAID	T.Sudou
31.07.2023	1.125	HD_SSD	revised the order codes for Kioxia CM7 15.36TB	Y. Sugiyama
31.07.2023	1.124	HD_SSD	added the PCIe-SSD "Kioxia CM7 series"	Y. Sugiyama
10.07.2023	1.123	Base	description for short depth base unit is updated.	J.Zhao
22.06.2023	1,122	others	Added No TPM for WINSVR.	K. Nishihara
22.06.2023	1.121	Base	changed configurable RAID card because of cancelled PRAID CP600i, PRAID EP 3252-8i, PRAID EP 3254-8i, PRAID EP 3258-16i, PRAID EP 3258-16i NVMe	J.Zhao
15.06.2023	1.120	RAID	cancelled PRAID CP600i, PRAID EP 3252-8i, PRAID EP 3254-8i, PRAID EP 3258-16i, PRAID EP 3258-16i NVMe	T.Sudou
13.06.2023	1,119	Thermal Rule	Add target base units of short depth models.	J.Zhao
08.06.2023	1,118	LAN_FC_IB	Change X710-T4L OCPv3 available date from 2Q to 3Q. SFP/QSFP LR module is ready except Finisar 100G	F.Kanega
07.06.2023	1,117	GFX	L4 is released.	M.Takaoka
06.06.2023	1,116	RAID, HDD_SSD	updated availability schedules	T.Sudou
05.06.2023	1,115	RAID Thermal Rule/LAN_FC_IB	Revised notes for FBU regarding short depth models Revised "PFC EP LPe36000/36002 2X 32GFC PCIe v4 LP" to 64GFC	J.Zhao
01.06.2023	1,114	RAID	Add the comments "1x FBU can be integrated per short depth base units"	J.Zhao
01.06.2023	1,114	Thermal Rule	added PDUAL CP100 to thermal level table	J.Zhao
30.05.2023	1,113	HD_cage	added the restriction about rear bay for Kioxia PM7	Y. Sugiyama
30.05.2023	1,113	HDD_SSD	added the Kioxia PM7 as SSD SAS 24G due to T40 declaration	Y. Sugiyama
15.05.2023	1,112	RAID	added RHEL 9.1 to OS support matrix for SW-RAID updated availability schedules	T.Sudou
09.05.2023	1,111	Thermal Rule	added CP600i,EP640i,EP3252-8i,EP3254-8i,EP3258-16i,CP600e to thermal level table	J.Sugiyama
25.04.2023	1.110	CPU	added iRMC FW version condition to CPU dummy	J.Sugiyama
20.04.2023	1,109	Thermal Rule	updated Thermal Rule. added the condition of 1CPU configuration w/ CPU dummy	J.Sugiyama
20.04.2023	1,109	CPU	added CPU dummy PYBDMC02, PY-BDMC02 for the thermal rule improvement added Cooler kit PY-TKCP096, PY-TKPC97	J.Sugiyama
20.04.2023	1,109	base	added EOL date to PYR2536R6N	J.Sugiyama
18.04.2023	1,108	HDD_SSD	added PDUAL CP300 PYBDMCP35L, PY-DMCP35	T.Sudou
18.04.2023	1,108	RAID	updated availability schedules	T.Sudou
13.04.2023	1,107	base	updated Rack Mount Kit for short depth, no CMA supported	J.Zhao
06.04.2023	1,106	base RAID	added CMA for short depth models added Rack Mount Kit for short depth, no CMA supported updated cable kit for short depth models	J.Zhao
31.03.2023	1,105	RAID	revived Intel VROC Upgrade Key PYBRLVR02, PY-RLVR02	T.Sudou
28.03.2023	1,104	GFX / Thermal Rule	Updated NVIDIA L4 and Thermal Rule	T. Sasaki
24.03.2023	1,103	RAID	added cable kit for short depth models	Y. Narita

22.03.2023	1,102	base GFX	Corret the part number for 10x 2.5" HDD bays short depth model Add front VGA option for short depth models	J.Zhao
13.03.2023	1,101	base	PN changed for Rack Mount Kit, Slide-in rail for short depth	J.Zhao
13.03.2023	1.100	RAID	updated availability schedules updated Note about PSAS CP 2100-8i mixed configurations	T.Sudou
21.02.2023	1,99	LAN_FC_IB	updated availability schedules Add the comment for Finisar 100G LR module	F.Kanega
15.02.2023	1,98	RAID	updated availability schedules	T.Sudou
08.02.2023	1,97	Description base	added the comments for short depth base units added short base units added RMK for short depth base units	J.Zhao
13.01.2023	1,96	RAID	cancelled Intel VROC Upgrade Key PYBRLVR02, PY-RLVR02 added RHEL 9 GA and 8.7 to OS support matrix for SW-RAID	T.Sudou
28.12.2022	1,95	others	added "IRMC advanced pack" L264 and update region	H.Taniguchi
20.12.2022	1,94	LAN_FC_IB / Thermal Rule	updating LAN_FC_IB sheet to the latest status.(E810-XXVDA4/SFP LR). Changing the order of the cards. Adding Thermal rule of Broadcom LAN cards.	F.Kanega
09.12.2022	1,93	HD_SSD	removed the restriction "18TB HDDs are NOT released with PRAID EP680i" for 3.5" HDD-SAS/SAS SED	Y. Sugiyama
02.12.2022	1,92	base	added PSAS CP 2100-8i to PYR2536RBN	T.Sudou
29.11.2022	1,91	RAID	updated availability schedules	T.Sudou
25.11.2022	1,90	HD_SSD	updated the description about hotplug support of PCIe SSD	Y. Sugiyama
21.10.2022	1,89	HDD_SSD	updated the EOL status according to SalesStatus added the M.2 SATA 960GB "PYBMF96YN/PY-MF96YN"	Y. Sugiyama
05.10.2022	1,88	RAID	added FBU for EP 325x PYBFBM011, PYBFBM013, PY-FBM01	T.Sudou
03.10.2022	1,87	base	added PRAID EP 3252-8i, EP 3254-8i, PRAID EP 3258-16i (NVMe)	T.Sudou
03.10.2022	1,87	RAID	added PRAID EP 3252-8i PYBSR4MA1L, PY-SR4MA1 PRAID EP 3254-8i PYBSR4MA2L, PY-SR4MA2 PRAID EP 3258-16i (NVMe) PYBSR4MA3L, PYBSR4MA4L, PY-SR4MA3	T.Sudou
30.09.2022	1,86	base	described the names of support controllers precisely	T.Sudou
26.09.2022	1,85	GFX	Updated NVIDIA A2	T. Sasaki
22.09.2022	1,84	Thermal Rule	added PCIe Level for PSAS CP 2100-8i LP	T.Sudou
16.09.2022	1,83	Thermal Rule	Added thermal Leve/Tier for PYBLA404L and PYBLA404U.	Y.Ikuta
07.09.2022	1,82	HDD_SSD	updated Notes on max. No for M.2 SATA SSD added "EOL" to Dual microSD S26361-F4045-E64, S26361-F4045-L64	T.Sudou
07.09.2022	1,82	RAID	added SLES15 SP4 to Note for Onboard SW-RAID	T.Sudou
05.09.2022	1,81	HDD_SSD / S26361-F5659-E13	added RAID PRESET option	T.Sudou
02.09.2022	1,8	base	removed CP 2100-8i from 3rd configuration in PYR2536RBN	T.Sudou
22.08.2022	1,79	others	updated Notes for TPM2.0	T.Sudou
15.08.2022	1,78	LAN	Corrected product name of Mellanox 25GbE for OCPv3.	Y.Ikuta
10.08.2022	1,77	HDD_SSD	updated Notes for PDUAL CP100	T.Sudou
08.08.2022	1,76	LAN	Released thermal restricted items. PYBLA412U/PY-LA412U PYBLA412L/PY-LA412 S26361-F4052-E701/S26361-F4052-L701	Y.Ikuta
01.08.2022	1,75	PSU	added new Titanium PSUs PYBPU503, PY-PU503, PY-PU503B8, PY-PU901B8, PYBPU165, PY-PU165	Y.Narita
27.07.2022	1,74	Description	Updated recommended configuration. Changed from 500W PSU to 900W PSU.	J.Sugiyama
13.07.2022	1,73	RAID / PYBSC3MAVL	added PSAS CP 2100-8i for vSAN	T.Sudou
12.07.2022	1,72	LAN/FC	*Added Broadcom LAN. PYBLA284U,PY-LA284U PYBLA3K2U,PY-LA3K2U PYBLA3J2U,PY-LA3J2U PYBLA284L,PY-LA284 PYBLA3K2L,PY-LA3K2 PYBLA3J2L,PY-LA3J2 *Added LR optical modules. PYBSFPL09,PY-SFPL09 PYBSFPL08,PY-SFPL08 PYBSFPL10,PY-SFPL10 PYBSEPL11,PY-SEPL11	Y.Ikuta
08.07.2022	1,71	LAN	Updated "as soon as available". Added PY-FC431, PYBFC431L, PY-FC432, PYBFC432L	Y.Ikuta
04.07.2022	1,7	Thermal Rule	Added the thermal rule of 3.5"/2.5" base unit (including Level6-7 PCIe cards or Tier10-12 OCP) Added PYBLA412L to PCIe Level for Thermal condition. Added PYBLA412U to OCP Tier for Thermal condition. Added NVIDIA A2 to GPGPU group in thermal condition table.	J.Sugiyama

01.07.2022	1,69	HDD_SSD	removed the as soon as available for several codes because these are released. removed the 2.5" BC-SATA/SAS HDD due to RV issue (no plan for solution) added the EOL information for SSD SATA "SM883/PM883"	Y. Sugiyama
28.06.2022	1,68	RAID / PYBRLVR02, PY-RLVR02	added Intel VROC Key	T.Sudou
21.06.2022	1,67	GFX	Updated GFX	T. Sasaki
17.06.2022	1,66	FC	Added order code; -S26361-F5580-E201/L501 -S26361-F5580-E202/L502	Y.Ikuta
16.06.2022	1,65	GFX	Updated GFX	T. Sasaki
16.06.2022	1,64	change_history	Introduce this history table with a new style	
30.05.2022		HDD_SSD	updated Note for PDUAL CP100	T.Sudou
30.05.2022		RAID	updated OS support matrix for SW-RAID, removed BSMI limitation from PSAS CP 2100-8i	T.Sudou
19.05.2022		Energy Star	updated condition	J.Sugiyama
19.05.2022		RAID	updated description for cable kit	J.Sugiyama
19.05.2022		base, RAID	added PRAID CP600i, PSAS CP600i/e, PRAID EP640i	T.Sudou
17.05.2022		Energy Star	added condition	J.Sugiyama
17.05.2022		RAID	removed "as soon as possible" for cable kit.	J.Sugiyama
17.05.2022		base	removed LC kit	J.Sugiyama
17.05.2022		RAID	added OS support matrix for SW-RAID	T.Sudou
12.05.2022		Thermal Rule	Added PCIe Level of QLE2770 and QLE2772	Y.Ikuta
27.04.2022		RAID	updated about BSMI for PSAS CP 2100-8i	T.Sudou
27.04.2022		base	added PSAS CP 2100-8i	T.Sudou
15.04.2022		FC	Released Broadcom LPe3600x	Y.Ikuta
04.04.2022		Thermal Rule	Added QLE2690, QLE2692	J.Sugiyama
10.03.2022		HDD_SSD	removed the "T.B.D." for BC-SATA/SAS	Y. Sugiyama
01.03.2022		RAID	updated Note for PSAS CP 2100-8i	T.Sudou
14.12.2021		HDD_SSD	Added the SSD SATA for SM897/PM893, and removed the restriction for P5800X	Y. Sugiyama
10.02.2022		RAID	added Note for PSAS CP 2100-8i, removed PY-SC3MA2	T.Sudou
07.02.2022		GFX	Updated NVIDIA A2	T. Sasaki
31.01.2022		LAN	released 10G SFP for MCX4	Y.Ikuta
17.01.2022		Thermal Rule	Add PCIe Level of IB HCA 100Gb 1/2 ch HDR	J.Sugiyama
07.01.2022		LAN	released 25G SFP and added ATD restriction for MCX4	Y.Ikuta
24.12.2021		others	updated Notes for TPM2.0	T.Sudou
13.12.2021		HDD_SSD	Added the existing order codes as multi-source for HD SAS 10K 600GB/1.2TB	Y. Sugiyama
10.12.2021		HDD_SSD	Added the restriction for EDSFF PCIe-SSD	Y. Sugiyama
08.12.2021		HDD_SSD	Updated note for PDUAL CP100	T.Sudou
08.12.2021		LAN	Released Intel 25G SRX SFP	Y.Ikuta
29.11.2021		HDD_SSD	change the description about max quantity to 10x for SAS HDD	Y. Sugiyama
26.11.2021		RAID	Updated some restrictions	T.Sudou
19.11.2021		others	Added Notes for TPM2.0	T.Sudou
18.11.2021		HDD_SSD	Added the restriction with RAID Controller for P5800X according to T50 Report.	Y. Sugiyama
16.11.2021		FC	Updated 64G FC cards	Y.Ikuta
12.11.2021		RAID	added PSAS CP 2100-8i	T.Sudou
02.11.2021		FC	Added 64G FC cards	Y.Ikuta
25.10.2021		HDD_SSD	removed the description "as soon as available" for HD 18TB	Y. Sugiyama
22.10.2021		base	Add the note for PYBRRS8S/PY-RRS8S	Y.Narita
21.10.2021		GFX	Updated NVIDIA GRID License restriction.	T. Sasaki
11.10.2021		others	Added Notes for TPM2.0	T.Sudou
06.10.2021		Thermal Rule	corrected description	
29.09.2021		RAID	Added note to FBU S26361-F4042-E171	Y.Narita
29.09.2021		LAN	changed SFP support policy	Y.Ikuta
27.09.2021		IB	Add IB HCA 100Gb 1/2 ch HDR	T. Sasaki
22.09.2021		HDD_SSD	Added the P5800X as PCIe-SSD	Y. Sugiyama
21.09.2021		CPU	updated for Xeon Platinum 8362/8352M	A.Iwata
21.09.2021		FC	Removed "as soon as available" from QLE277x.	Y.Ikuta
15.09.2021		others / PYBTMP14, PY-TPM14	Added TPM2.0 for WS2022	T.Sudou
10.09.2021		HDD_SSD	Added the restriction with PRAID EP680i for HDD SAS 18TB	Y. Sugiyama
09.09.2021		RAID	Updated some restrictions	T.Sudou
07.09.2021		RAID	Added the cable kit for upgrade RAID cards	Y. Narita
03.09.2021		HDD_SSD	Added the HDD BC-SATA/SAS 18TB	Y. Sugiyama
01.09.2021		HDD_SSD	Added note to PDUAL CP100	T.Sudou
30.08.2021		HDD_SSD	Added note "EMEIA only" to PDUAL CP100	T.Sudou
28.08.2021		LAN	Removed E25GSFP28SR, Added E25GSFP28SRX.	Y.Ikuta
23.08.2021		LAN	Removed "as soon as available" from X710-DA2/DA4/T2L OCPV3	Y.Ikuta
04.08.2021		RAID	Added note to Onboard SW-RAID	T.Sudou
30.07.2021		ErP Lot9	updated for HCC CPU release	A.Iwata
28.07.2021		LAN	Removed "as soon as available" from X710-DA2/DA4 PCIe Added 10G SFP E-pars restriction for 25G Card due to BTO system specification	Y.Ikuta
15.07.2021		LAN	Removed "as soon as available" from X710-T4L PCIe	Y.Ikuta
09.07.2021		LAN	Removed "as soon as available" from X710-T2L PCIe	Y.Ikuta
09.07.2021		Thermal Rule	Updated Thermal Rule	J.Sugiyama
30.06.2021		base	Added PFR model	Y. Narita

28.06.2021		HDD_SSD	Added PDUAL CP100	T.Sudou
24.06.2021		PSU	Removed "Region Kit China for CCC option not required systems"	J.Sugiyama
21.06.2021		ErP Lot9	Added new restriction	Y. Narita
16.06.2021		LAN	X710 series PCIe changed to "as soon as available"	Y.Ikuta
10.06.2021		RAID	Removed PSAS CP 2100-8i	T.Sudou
07.06.2021		LAN	MCX6-DX PCIe changed to "as soon as available"	Y.Ikuta
07.06.2021		Cover	Added new order code information	J.Sugiyama
07.06.2021		GFX	Updated the restriction for NVIDIA T4	J.Sugiyama
07.06.2021		RAM	Updated the note about mixed DIMM configuration	J.Sugiyama
07.06.2021		Thermal Rule	Updated rear bay condition	J.Sugiyama
03.06.2021		RAID	Updated descriptions for EP540i/EP580i/EP680i	T.Sudou
01.06.2021		base	Delete bulk base unit	Y. Narita
01.06.2021			1st release	