

**PRIMERGY RX2530 M7**  
**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



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 M7
2		describes rack mount kits and services
3	CPU	Order code and Infos of processors
4	RAM	DDR5 System memory (RAM) and memory modes
5	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors and other graphics options
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	Erp 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**

<b>S26361-F4610-E2</b>
<b>S26361-F4610-L3</b>
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**

<b>PYB VAP04</b>
<b>PY-VAP04</b>
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-rx2530M7.pdf>

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

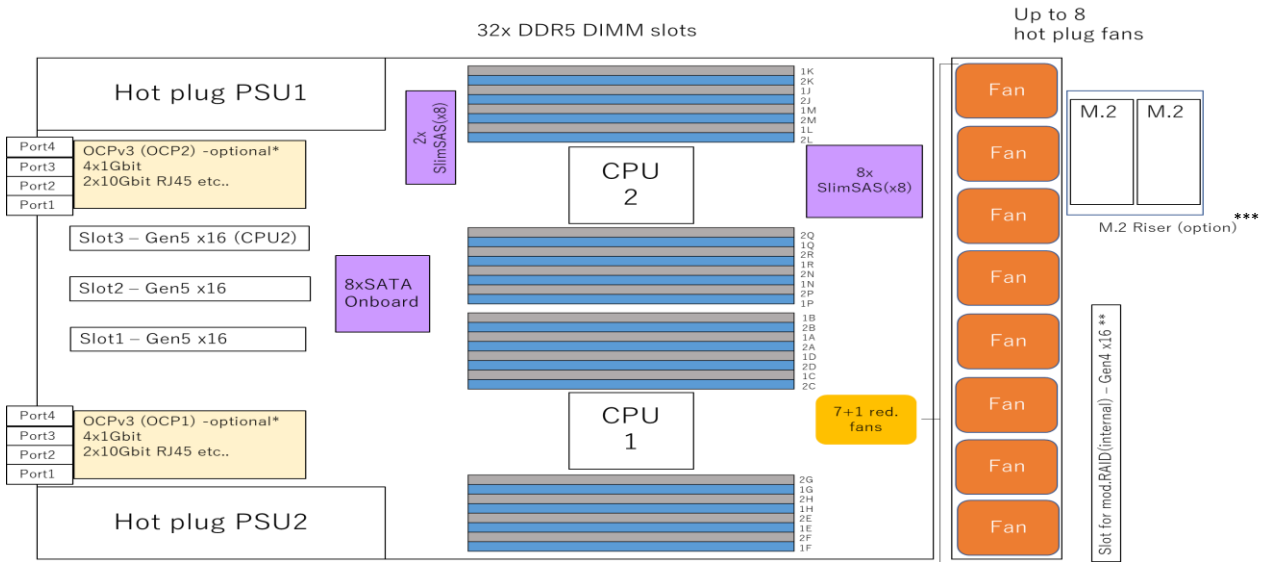
<https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx>  
 (extranet)

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-E240" 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-L240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

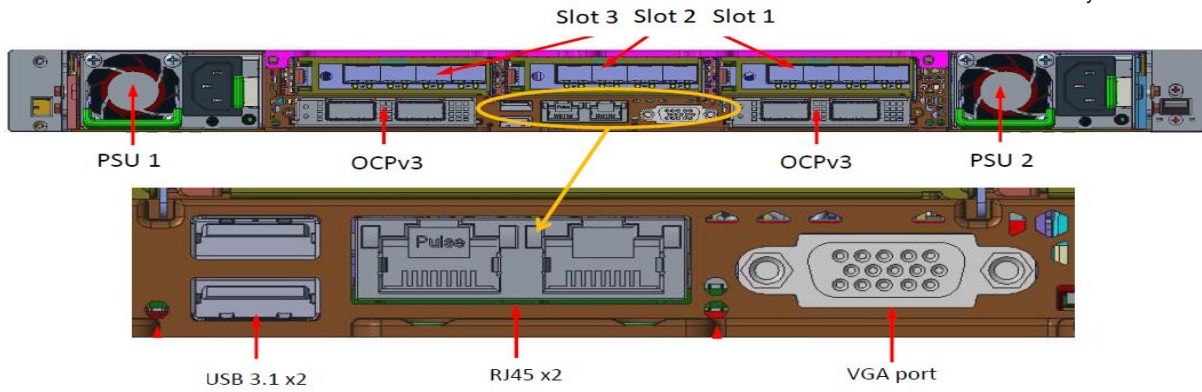
## PRIMERGY RX2530 M7: Schematics of the System board



\*: For the available options, please see the "Chapter 11".  
 \*\*: Not available for 4x3.5" standard base unit and short depth base unit  
 \*\*\*: Not available for short depth base unit

**PRIMERGY RX2530 M7 rear view with PSU, PCIe slots and OCPv3 slot**

\*Slot3 is necessary second CPU  
\*Second OCPv3 slot is necessary second CPU

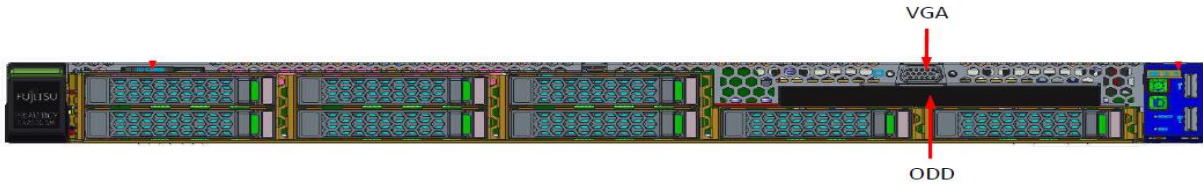


**PRIMERGY RX2530 M7 front view with drives and operation panel**

**4x 3.5"**



**8x 2.5"**



**10x 2.5"**



recommended components for RX2530 M7	#
Independant Mode installation	1x
PLAN CP I350-T4 4X 1000BASE-T OCPv3	1x
iRMC S6 advanced pack	1x
embedded Lifecycle Management (eLCM)	1x
Modular PSU 900W Titanium hot plug	2x

Start

**Power supply units & cooling**

The PRIMERGY RX2530 M7 offers bays for 1x or 2x direct attached hot plug (opt. redundant) power supply units of 500W, 900W, 1600W and 2200W with up to 96% efficiency. The PRIMERGY RX2530 M7 comes equipped with ultimate performance processor heat pipes and 7+1 high performance dual hot plug fans (7+1 redundant).

**Server Management**

iRMC S6 (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 D3982-A with PFR function based on Chipset Intel® C741 (Emmitsburg).

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

> Up to two Intel® Xeon® Processor Scalable Family CPUs (Sapphire Rapids/Emerald Rapids)

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 x16 - only for modular RAID/SAS controller

Slot 1 PCIe-Gen5 x16

Slot 2 PCIe-Gen5 x16

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

Slot 3 PCIe-Gen5 x16

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

The system offers 1x internal x16 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.

System RAM up to DDR5-4800 MHz

32x DDR5 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**

1x1Gbit/s (RJ45) on Motherboard - 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 RJ45 with integrated LEDs for fixed onboard 1Gb LAN
- 1x VGA (15 pins)
- 2x USB 3.0 UHCI
- 1x serial 16550 interface (optional)
- 2 Slot for interface OCPv3 cards

Interfaces at front

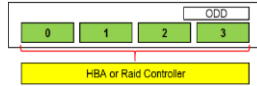
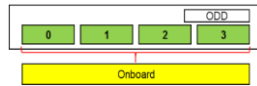
for base units with up to 8 HDD: 2x USB 3.0 and front VGA option  
for base units with 10 HDD: 2x USB3.0, no front VGA option

Interfaces internal

- 2x M.2 (required M.2 riser option, not for short depth model)
- 2x 4\* SATA 6G

<b>Rack version for 19" racks with 1 height unit</b>	
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	
<b>Basic unit LFF with</b>	
<b>4x 3.5" HDD bays</b>	<b>PYR2537R3N</b>
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	

SAS/SATA SAS/SATA/PCIe combo PCIe



**Front**

**Type 1-1:** 4xSATA: Onboard SATA

No Rear Bay option

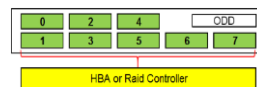
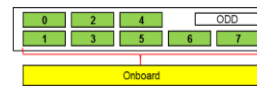
**Front**

**Type 1-3:** 4xSAS/SATA: PSAS CP600i or  
 PRAID CP500i / EP520i / EP540i / EP580i or  
 PRAID CP600i \*\* / EP640i / EP680i / EP740i \* or  
 PSAS CP 2100-8i / CP 2200-16i or  
 PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i  
 (in PCIe slot 1)

No Rear Bay option

\*: will be available in 2025/01  
 \*\*: will be available in 2024/10

<b>Basic units SFF with</b>	
<b>8x 2.5" HDD bays</b>	<b>PYR2537R2N</b>
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	



**Front**

**Type 2-1:** 8xSATA: Onboard SATA

No Rear Bay option

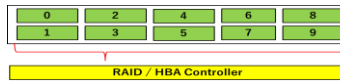
**Front**

**Type 2-4,6:** 8xSAS/SATA: PSAS CP600i or  
 PRAID CP500i / EP520i / EP540i / EP580i or  
 PRAID CP600i \*\* / EP640i / EP680i / EP740i \* or  
 PSAS CP 2100-8i / CP 2200-16i or  
 PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i  
 (internal RAID slot)

No Rear Bay option

\*: will be available in 2025/01  
 \*\*: will be available in 2024/10

<b>Basic units SFF with</b>	
<b>10x 2.5" HDD bays</b>	<b>PYR2537RAN</b>
for SAS/SATA HDDs with RAID controller	
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	



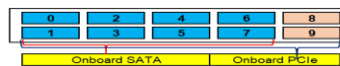
**Front**

**Type 3-1:** 10xSAS/SATA: PSAS CP600i or  
 PRAID EP540i / EP580i / EP680i / EP740i \* or  
 PSAS CP 2200-16i or  
 PRAID EP 3258-16i (internal RAID slot)

No Rear Bay option

\*: will be available in 2025/01

<b>Basic units SFF with</b>	
<b>10x 2.5" HDD bays</b>	<b>PYR2537RCN</b>
for SATA/PCIe SSD with onboard controller	
No Rear Bay option possible.	
[Limitation] Refer to Chapter18-Thermal Rule	



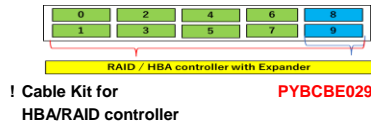
**Front**

**Type 3-11:** 8xSATA: Onboard SATA or  
 10xNVMe: Onboard PCIe  
 2nd CPU is required for NVMe

No Rear Bay option

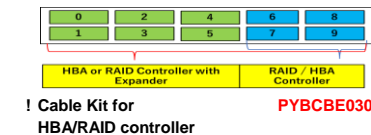
Basic units SFF with  
10x 2.5" HDD bays  
Including SAS Expander  
PYR2537RBN

[Limitation]  
Refer to Chapter18-Thermal Rule



Front  
Type 3-8: 10xSAS/SATA: PRAID EP680i / EP740i \* or PSAS-CP-2200-16i \*\* or PRAID EP-3258-16i \*\* (internal RAID slot)  
2xNVMe: same controller

Rear Bay Option  
Type 3-9: 2xSAS/SATA: Same controller as Front



Front  
Type 3-10/Type 3-20: 10xSAS/SATA: PSAS CP600i or PRAID CP500i / EP520i / EP540i / EP580i or PRAID CP600i \*\*\* / EP640i / EP680i / EP740i \* or PSAS CP 2100-8i / PSAS CP 2200-16i or PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i (internal RAID slot)  
Type 3-10: 4xNVMe: PRAID EP680i NVMe / EP740i NVMe \* or PSAS CP-2200-16i NVMe \*\* or PRAID EP-3258-16i NVMe \*\* (in PCIe slot 1)  
\*Difference between Type 3-10 & Type 3-20 is NVMe included or not

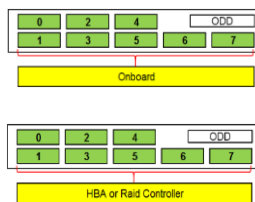
No Rear Bay option

Please select one of " ! " options with PYR2537RBN, according to your configuration. \*: will be available in 2025/01 \*\*: Cancelled \*\*\*: will be available in 2024/10

short depth model  
Basic units SFF with  
8x 2.5" HDD bays  
PYR2537RDN  
\*will be available in June 2023

No Rear Bay option possible.

[Limitation]  
Refer to Chapter18-Thermal Rule



Front  
Type 2S-1: 8xSATA: Onboard SATA  
No Rear Bay option

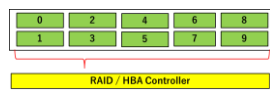
Front  
Type 2S-2: 8xSAS/SATA: PSAS CP600i or PRAID CP500i / EP520i / EP540i / EP580i or PRAID CP600i \*\* / EP640i / EP680i / EP740i \* or PSAS CP 2100-8i / CP 2200-16i or PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i (in PCIe slot 2)

No Rear Bay option

short depth model  
Basic units SFF with  
10x 2.5" HDD bays  
for SAS/SATA HDDs with RAID controller  
PYR2537REN  
\*will be available in June 2023

No Rear Bay option possible.

[Limitation]  
Refer to Chapter18-Thermal Rule



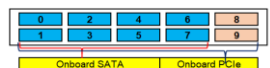
Front  
Type 3S-1: 10xSAS/SATA: PSAS CP600i or PRAID EP540i / EP580i / EP680i / EP740i \* or PSAS CP 2200-16i or PRAID EP 3258-16i (in PCIe slot 2)

No Rear Bay option

short depth model  
Basic units SFF with  
10x 2.5" HDD bays  
for SATA/PCIe SSD with onboard controller  
PYR2537RFN  
\*will be available in June 2023

No Rear Bay option possible.

[Limitation]  
Refer to Chapter18-Thermal Rule



Front  
Type 3S-2: 8xSATA: Onboard SATA or 10xNVMe: Onboard PCIe  
2nd CPU is required for NVMe

No Rear Bay option



<b>Standard Rear</b>
Default

<b>Upgrade kit of Rear 2x 2.5" bays for SAS/SATA HDD/SSD</b>
<b>PYBBA22S5</b>
max 1x for system
Base Unit: 10x 2.5" with SAS Exp.

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

<b>Full height riser card kit</b>
<b>PYBPRE633</b> <b>PY-PRE633</b>
Offers 1x FH Gen 5 PCIe slots: 1* x16 for full height PCIe cards with max. 167mm length will be inserted into Slot 3 PCIe 5.0 x16 instead of Slot 2 and Slot 3.
max 1x for system
Base Unit: All base unit

Not Available with Rear 2x 2.5" bays  
2nd CPU is required

**! 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**

CMA require RMK

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 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 Mount Kit for short depth	1x	Telescopic drop-in rail	PYBRRL7	PY-RRL7	
Rack Mount Kit for short depth	1x	Telescopic drop-in rail, CMA not supported	PYBRRL8	PY-RRL8	*CMA is not supported.
Rack Mount Kit, Slide-in rail for short depth	1x	Slide-in rail	PYBRRS9S	PY-RRS9S	*CMA is not supported.
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	S26361-F1647-E302	n/a	to be ordered 1x per installed rack server RMK needed

**B**

## Chapter 3 - CPU

B

### 4th Generation Intel® Xeon® Scalable Processors

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, 2x PCIe low profile slots, Internal RAID card slot (except for 4x3.5" base unit) and 16x DIMM slots are available.
- >> With **two** processors; 2xOCPv3, 3x PCIe low profile slots, Internal RAID card slot (except for 4x3.5" base unit) and 32x DIMM slots are available.
- >> To configure 2nd CPU, an additional cooler kit is required.

Xeon Bronze 3508U, Xeon Gold 5512U and Xeon Platinum 8558U and Xeon Platinum 8581V are not allowed to configure 2nd CPU.

#### CPU Group for Thermal condition

4x3.5"  
8x2.5"  
10x2.5"

#### Available DIMM Type

DDR5-4800		DDR5-5600	
16GB	16GB	32GB	96GB
32GB	32GB	64GB	
128GB	128GB	256GB	

Processor	Part Number	Socket	CPU Group	Thermal Condition	Available DIMM Type
<b>Xeon Bronze 34xx - Mainline, 1 socket configuration only</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4000 MT/s					
Xeon Bronze 3408U 8C 1.8GHz 125W	PYBCP65XR	-	A		○
<b>Xeon Silver 44xx - Mainline, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4000 MT/s & UPI Bus (2UPI) @ 16 GT/s					
Xeon Silver 4410Y 12C 2.0GHz 150W Speed Select Technology	PYBCP66XG	PY-CP66XG	A		○
Xeon Silver 4416+ 20C 2.0GHz 165W	PYBCP66XH	PY-CP66XH	B		○
<b>Xeon Gold 54xx - Mainline/Performance Optimized, 1 socket configuration only</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s					
Xeon Gold 5412U 24C 2.1GHz 185W	PYBCP65XS	-	B		○
<b>Xeon Gold 54xx - Mainline/Performance Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Gold 5415+ 8C 2.9GHz 150W	PYBCP65XT	PY-CP65XT	A		○
Xeon Gold 5418Y 24C 2.0GHz 185W Speed Select Technology	PYBCP65XW	PY-CP65XW	B		○
Xeon Gold 5420+ 28C 2.0GHz 205W	PYBCP65XX	PY-CP65XX	C		○
<b>Xeon Gold 64xx - Mainline/Performance Optimized, 1 socket configuration only</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s					
Xeon Gold 6414U 32C 2.0GHz 250W	PYBCP65X1	-	C		○
<b>Xeon Gold 64xx - Mainline/Performance Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Gold 6426Y 16C 2.5GHz 185W Speed Select Technology	PYBCP66X2	PY-CP66X2	B		○
Xeon Gold 6430 32C 2.1GHz 270W (DDR5 @ 4400(1DPC/2DPC))	PYBCP65X2	PY-CP65X2	C		○
Xeon Gold 6434 8C 3.7GHz 195W	PYBCP66X4	PY-CP66X4	C		○
Xeon Gold 6438Y+ 32C 2.0GHz 205W Speed Select Technology	PYBCP66X8	PY-CP66X8	C		○
Xeon Gold 6442Y 24C 2.6GHz 225W Speed Select Technology	PYBCP66X9	PY-CP66X9	C		○
Xeon Gold 6444Y 16C 3.6GHz 270W Speed Select Technology	PYBCP66XA	PY-CP66XA	C		○
Xeon Gold 6448Y 32C 2.1GHz 225W Speed Select Technology	PYBCP66XC	PY-CP66XC	C		○
<b>Xeon Platinum 84xx - Mainline/Performance, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 16 GT/s					
Xeon Platinum 8462Y+ 32C 2.8GHz 300W Speed Select Technology	PYBCP66XE	PY-CP66XE	D		○
Xeon Platinum 8452Y 36C 2.0GHz 300W Speed Select Technology	PYBCP65X8	PY-CP65X8	D		○
Xeon Platinum 8460Y+ 40C 2.0GHz 300W Speed Select Technology	PYBCP65XE	PY-CP65XE	D		○
Xeon Platinum 8468 48C 2.1GHz 350W	PYBCP65XF	PY-CP65XF	D		○
Xeon Platinum 8470 52C 2.0GHz 350W	PYBCP65XK	PY-CP65XK	D		○
Xeon Platinum 8480+ 56C 2.0GHz 350W	PYBCP65XN	PY-CP65XN	D		○
<b>Xeon Platinum 84xxH - IMDB/Analytics Workload Optimized, 8 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 16 GT/s					
Xeon Platinum 8490H 60C 1.9GHz 350W	PYBCP65XP	PY-CP65XP	D		○
<b>Xeon - Cloud Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Gold 6438M 32C 2.2GHz 205W Speed Select Technology	PYBCP66X6	PY-CP66X6	C		○
Xeon Platinum 8468V 48C 2.4GHz 330W Speed Select Technology	PYBCP65XJ	PY-CP65XJ	D		○
Xeon Platinum 8458P 44C 2.7GHz 350W Speed Select Technology	PYBCP65XB	PY-CP65XB	D		○
<b>Xeon - Network Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Gold 5418N 24C 1.8GHz 165W (DDR5 @ 4000(1DPC/2DPC)) Speed Select Tech	PYBCP65XV	PY-CP65XV	B		○
Xeon Gold 6428N 32C 1.8GHz 185W (DDR5 @ 4000(1DPC/2DPC)) Speed Select Tech	PYBCP66X3	PY-CP66X3	B		○
Xeon Gold 6438N 32C 2.0GHz 205W Speed Select Technology	PYBCP66X7	PY-CP66X7	C		○
Xeon Platinum 8470N 52C 1.7GHz 300W Speed Select Technology	PYBCP65XL	PY-CP65XL	D		○
<b>Xeon - Storage &amp; HCI Workload Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Gold 5416S 16C 2.0GHz 150W (DDR5 @ 4400(1DPC/2DPC)) Speed Select Tech	PYBCP65XU	PY-CP65XU	A		○
Xeon Gold 6454S 32C 2.2GHz 270W Speed Select Technology	PYBCP65X3	PY-CP65X3	C		○
<b>Xeon - Long-Life Use (IOT) Workload Optimized, 2 socket scalability</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4000 MT/s & UPI Bus (2UPI) @ 16 GT/s					
Xeon Silver 4410T 10C 2.7GHz 150W Speed Select Technology	PYBCP66XF	PY-CP66XF	A		○
<b>Xeon - HBM HPC Workload Optimize, 2 socket scalability, 3UPI</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 16 GT/s					
Xeon Max 9462 32C 2.7GHz 350W	PYBCP66XJ	PY-CP66XJ	E		○
Xeon Max 9460 40C 2.2GHz 350W	PYBCP66XK	PY-CP66XK	E		○
<b>Xeon - HBM HPC Workload Optimize, 2 socket scalability, 4UPI</b> (BTO) (Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 16 GT/s					
Xeon Max 9468 48C 2.1GHz 350W Speed Select Technology	PYBCP66XL	PY-CP66XL	E		○

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 185W TDP	-	PY-TKCP88
Cooling kit up to 350W TDP or ATD	-	PY-TKCP89

C

## Chapter 3 - CPU (B)

B

### 5th Generation Intel® Xeon® Scalable Processors

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, 2x PCIe low profile slots, Internal RAID card slot (except for 4x3.5" base unit) and 16x DIMM slots are available.

>> With **two** processors; 2x OCPv3, 3x PCIe low profile slots, Internal RAID card slot (except for 4x3.5" base unit) and 32x DIMM slots are available.

>> To configure 2nd CPU, an additional cooler kit is required.

Xeon Bronze 3508U, Xeon Gold 5512U and Xeon Platinum 8558U and Xeon Platinum 8581V are not allowed to configure 2nd CPU.

#### CPU Group for Thermal condition

4x3.5"  
8x2.5"  
10x2.5"

#### Available DIMM Type

DDR5-4800	DDR5-5600
18GB 32GB 64GB 128GB** 256GB**	16GB 32GB 64GB 128GB 256GB

\*Will be available 2Q,2024 for 5th gen CPU

\*\*Will be available for 5th gen CPU

<b>Xeon Bronze 35xx - Mainline, 1 socket configuration only</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s			
Xeon Bronze 3508U 8C 2.1GHz 125W	PYBCP68X1	-	A
<b>Xeon Silver 45xx - Mainline, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s & UPI Bus (2UPI) @ 16 GT/s			
Xeon Silver 4509Y 8C 2.6GHz 125W Speed Select Technology	PYBCP68X2	PY-CP68X2	A
Xeon Silver 4510 12C 2.4GHz 150W	PYBCP68X3	PY-CP68X3	A
Xeon Silver 4514Y 16C 2.0GHz 150W Speed Select Technology	PYBCP68X4	PY-CP68X4	A
Xeon Silver 4516Y+ 24C 2.2GHz 185W Speed Select Technology	PYBCP68X5	PY-CP68X5	B
<b>Xeon Gold 55xx - Mainline/Performance Optimized, 1 socket configuration only</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s			
Xeon Gold 5512U 28C 2.1GHz 185W	PYBCP68X6	-	B
<b>Xeon Gold 55xx - Mainline/Performance Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s			
Xeon Gold 5515+ 8C 3.2GHz 165W	PYBCP68X7	PY-CP68X7	B
Xeon Gold 5520+ 28C 2.2GHz 205W	PYBCP68X8	PY-CP68X8	C
<b>Xeon Gold 65xx - Mainline/Performance Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s			
Xeon Gold 6526Y 16C 2.8GHz 195W Speed Select Technology	PYBCP68X9	PY-CP68X9	C
Xeon Gold 6530 32C 2.1GHz 270W (DDR5 @4800(1DPC) / 4400(2DPC))	PYBCP68XA	PY-CP68XA	C
Xeon Gold 6534 8C 3.9GHz 195W (DDR5 @4800(1DPC) / 4400(2DPC))	PYBCP68XB	PY-CP68XB	C
Xeon Gold 6538Y+ 32C 2.2GHz 225W Speed Select Technology	PYBCP68XC	PY-CP68XC	C
Xeon Gold 6542Y 24C 2.9GHz 250W Speed Select Technology	PYBCP68XD	PY-CP68XD	C
Xeon Gold 6544Y 16C 3.6GHz 270W Speed Select Technology	PYBCP68XE	PY-CP68XE	C
Xeon Gold 6548Y+ 32C 2.5GHz 250W Speed Select Technology	PYBCP68XF	PY-CP68XF	C
<b>Xeon Platinum 85xx - Mainline/Performance, 1 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s			
Xeon Platinum 8558U 48C 2.0GHz 300W Speed Select Technology	PYBCP68XG	-	D
<b>Xeon Platinum 85xx - Mainline/Performance, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 5600(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 20 GT/s			
Xeon Platinum 8562Y+ 32C 2.8GHz 300W (UPI Bus (3UPI)) Speed Select Technology	PYBCP68XJ	PY-CP68XJ	D
Xeon Platinum 8558 48C 2.1GHz 330W (DDR5 @5200(1DPC) / 4400(2DPC))	PYBCP68XH	PY-CP68XH	D
Xeon Platinum 8568Y+ 48C 2.3GHz 350W Speed Select Technology	PYBCP68XK	PY-CP68XK	D
Xeon Platinum 8570 56C 2.1GHz 350W	PYBCP68XL	PY-CP68XL	D
Xeon Platinum 8580 60C 2.0GHz 350W	PYBCP68XM	PY-CP68XM	D
Xeon Platinum 8592+ 64C 1.9GHz 350W	PYBCP68XN	PY-CP68XN	D
<b>Xeon - Cloud Optimized, 1 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s			
Xeon Platinum 8581V 60C 2.0GHz 270W Speed Select Technology	PYBCP68XX	-	C
<b>Xeon - Cloud Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s			
Xeon Platinum 8592V 64C 2.0GHz 330W Speed Select Technology	PYBCP68XR	PY-CP68XR	D
Xeon Platinum 8558P 48C 2.7GHz 350W (DDR5 @5600(1DPC) / 4400(2DPC)) Speed	PYBCP68XS	PY-CP68XS	D
<b>Xeon - Network Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s			
Xeon Gold 6538N 32C 2.1GHz 205W Speed Select Technology	PYBCP68XT	PY-CP68XT	C
Xeon Gold 6548N 32C 2.8GHz 250W Speed Select Technology	PYBCP68XU	PY-CP68XU	C
<b>Xeon - Storage &amp; HCI Workload Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 20 GT/s			
Xeon Gold 6554S 36C 2.2GHz 270W Speed Select Technology	PYBCP68XV	PY-CP68XV	C
<b>Xeon - Edge (IOT) Workload Optimized, 2 socket scalability</b> (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s & UPI Bus (2UPI) @ 16 GT/s			
Xeon Silver 4510T 12C 2.0GHz 115W Speed Select Technology	PYBCP68XW	PY-CP68XW	A

DDR5-4800	DDR5-5600
18GB 32GB 64GB 128GB** 256GB**	16GB 32GB 64GB 128GB 256GB

Will be available June,2024

Will be available June,2024  
Will be available June,2024  
Will be available June,2024  
Will be available June,2024

Will be available June,2024

Will be available June,2024  
Will be available June,2024

Will be available June,2024  
Will be available June,2024

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

Cooler Kit		
Cooling Kit 2nd CPU	<b>S26361-F3849-E100</b>	-
Cooling kit up to <b>185W</b> TDP	-	<b>PY-TKCP88</b>
Cooling kit up to <b>350W</b> TDP or ATD	-	<b>PY-TKCP89</b>

C

## Chapter 4 - DDR5 System memory

C

Each CPU offers 16 Slots for DDR5 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 DDR5 Memory Modules available: RDIMM x4, RDIMM x8 and RDIMM 3DS x4  
Mix of these different kind of memories is not allowed.

Supported memory capacities per CPU:  
Up to 4TB using DDR5 RDIMM (16x 256GB DDR5 RDIMM 3DS)

Supported memory capacities per System (with 2CPU configuration):  
Up to 8TB using DDR5 RDIMM (32x 256GB DDR5 RDIMM 3DS)

The memory speed depends on configuration restricted by the CPU SKU (max. 4800 MT/s).  
DDR5 memory is operated at 1.2V

- The restriction for 96GB memory**
- The order must be x8pcs or x16pcs per CPU only
  - Not supported for mixed capacity in a system
  - Supported with XCC CPU only

### Memory Mode ; either one of following memory modes must be selected.

Normal Mode	Requires 1, 2, 4, 6, 8, 12 or 16 memory Module per CPU	1x per CPU	PYBMM2
Normal Mode required to be the best performance. ADDDC Sparring is available in case system configured by DDR5xR4 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.			
HBM-ONLY Mode	Requires HBM CPU, no memory needed	1x per CPU	PYBMMH1
HBM CPUs can work as memory with memory less configuration. If you order HBM SKUs with no DIMMs, you should order HBM-ONLY Mode.			
HBM Cache Mode	Requires HBM CPU, 4, 8 or 16 memory Module per CPU	1x per CPU	PYBMMHC1
HBM works as cache of memory under BIOS preconfiguration. Additional DIMM is needed			
HBM Flat Mode	Requires HBM CPU, 1, 2, 4, 8 or 16 memory Module per CPU	1x per CPU	PYBMMHF1
In this Mode, DDR can be added for a high capacity, HBM&DDR exposed as separate regions. Higher performing than Cache mode.			
HBM Flat+Mirroring Mode	Requires HBM CPU, 8 or 16 memory Module per CPU	1x per CPU	PYBMMHFM1
In this Mode, DDR can be added for a high capacity, HBM&DDR exposed as separate regions. 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			

### DDR5 DIMM only configuration section

Min 1x DIMM per CPU is required. Any Mix of RDIMMx8, RDIMMx4 and RDIMM 3DS is not conigured.

#### DDR5-4800

<b>DDR5 Registered DIMM 4800MHz 1R/2R x8</b>			
16GB (1x16GB) 1Rx8 DDR5-4800 R ECC	max 16x per CPU	PYBME16SL	PY-ME16SL
32GB (1x32GB) 2Rx8 DDR5-4800 R ECC	max 16x per CPU	PYBME32SL	PY-ME32SL
max 16x per CPU; max 32x for System			

<b>DDR5 Registered DIMM 4800MHz 1R/2R x4</b>			
32GB (1x32GB) 1Rx4 DDR5-4800 R ECC	max 16x per CPU	PYBME32SL2	PY-ME32SL2
64GB (1x64GB) 2Rx4 DDR5-4800 R ECC	max 16x per CPU	PYBME64SL	PY-ME64SL
max 16x per CPU; max 32x for System			

<b>DDR5 Registered DIMM 4800MHz 3DS 4R/8R x4</b>			
128GB (1x128GB) 4Rx4 DDR5-4800 R 3DS ECC	max 16x per CPU	PYBME12SL	PY-ME12SL
256GB (1x256GB) 8Rx4 DDR5-4800 R 3DS ECC	max 16x per CPU	PYBME25SL	PY-ME25SL
max 16x per CPU; max 32x for System			

Will be available on 5th gen CPU June,2024  
Will be available on 5th gen CPU June,2024

#### DDR5-5600

<b>DDR5 Registered DIMM 5600MHz 1R/2R x8</b>			
16GB (1x16GB) 1Rx8 DDR5-5600 R ECC	max 16x per CPU	PYBME16SP	PY-ME16SP
32GB (1x32GB) 2Rx8 DDR5-5600 R ECC	max 16x per CPU	PYBME32SP	PY-ME32SP
max 16x per CPU; max 32x for System			

<b>DDR5 Registered DIMM 5600MHz 1R/2R x4</b>			
32GB (1x32GB) 1Rx4 DDR5-5600 R ECC	max 16x per CPU	PYBME32SP2	PY-ME32SP2
64GB (1x64GB) 2Rx4 DDR5-5600 R ECC	max 16x per CPU	PYBME64SP	PY-ME64SP
max 16x per CPU; max 32x for System			

<b>DDR5 Registered DIMM 5600MHz 1R/2R x4</b>			
96GB (1x96GB) 2Rx4 DDR5-5600 R ECC	max 16x per CPU	PYBME96SP	PY-ME96SP
max 16x per CPU; max 32x for System			

Will be available on 5th gen CPU June,2024

<b>DDR5 Registered DIMM 5600MHz 3DS 4R/8R x4</b>			
128GB (1x128GB) 4Rx4 DDR5-5600 R 3DS ECC	max 16x per CPU	PYBME12SP	PY-ME12SP
256GB (1x256GB) 8Rx4 DDR5-5600 R 3DS ECC	max 16x per CPU	PYBME25SP	PY-ME25SP
max 16x per CPU; max 32x for System			

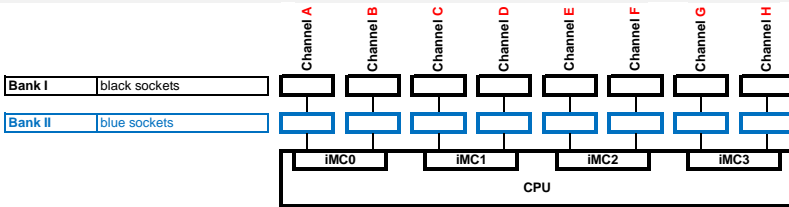
Will be available June,2024  
Will be available June,2024

Detailed information

RAS feature	Memory Mode	RDIMM	RDIMM	BIOS setting
			LRDIMM	
ECC	Normal Mode/Mirroring Mode	yes	yes	always enabled.
SDDC	Normal Mode/Mirroring Mode	no	yes	always enabled in case x4 DIMM configured.
ADDDC Sparing	Normal 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	16GB: 16GB x1	-
	8 Module / CPU	with one CPU	-	64GB: 16GBx8x50%
Max. Memory per CPU	16 Modules / CPU	with two CPU	4TB: 256GB x16	2TB: 256GBx16x50%
Max. Memory per System	32 Modules / System	with two CPU	8TB: 256GB x32	4TB: 256GBx32x50%

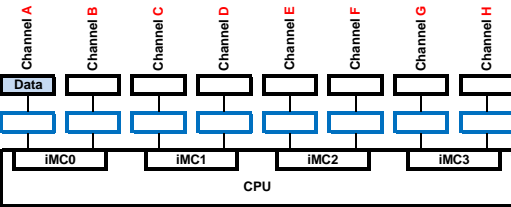
The memory sockets on the Systemboards are color coded



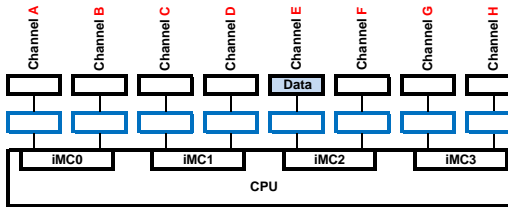
Normal Mode population DDR5 DIMM only

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 populated.  
Between Chanel A-C-E-G/B-D-F-H, each channel capacity need to be same if DIMM populated in each Chanel.

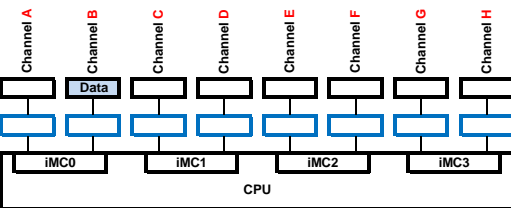
1 DIMMs for 1CPU



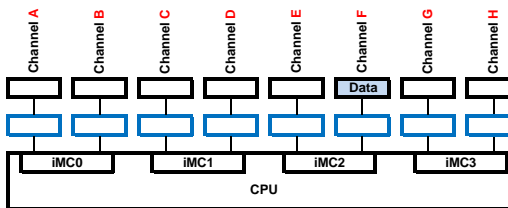
1 DIMMs for 1CPU



1 DIMMs for 1CPU

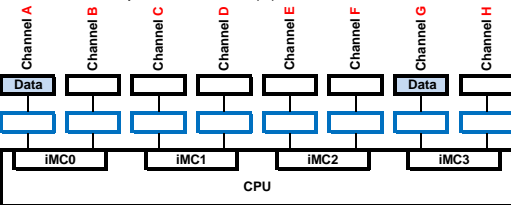


1 DIMMs for 1CPU



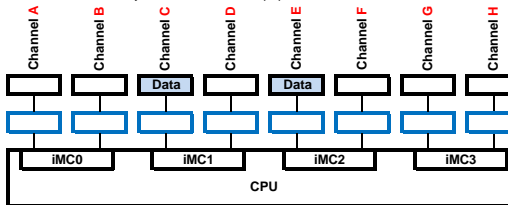
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



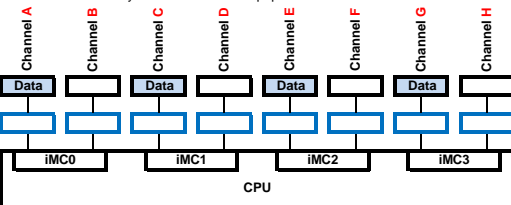
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



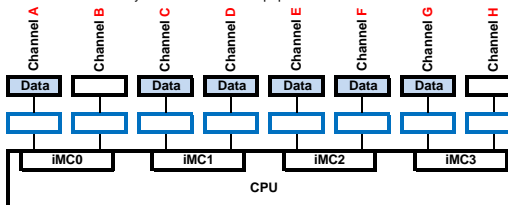
4 DIMMs for 1CPU

4x identical memory modules need to be populated.



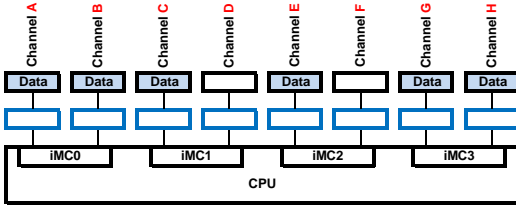
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



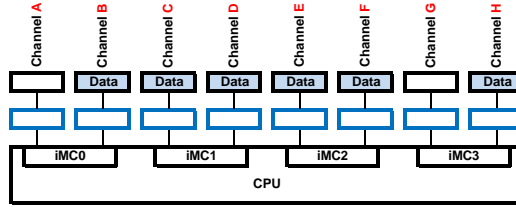
**6 DIMMs for 1CPU**

6x identical memory modules need to be populated.



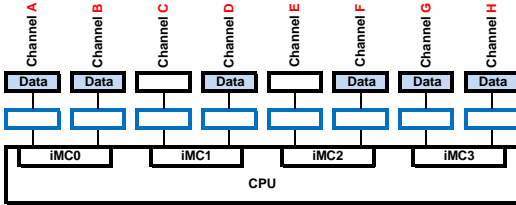
**6 DIMMs for 1CPU**

6x identical memory modules need to be populated.



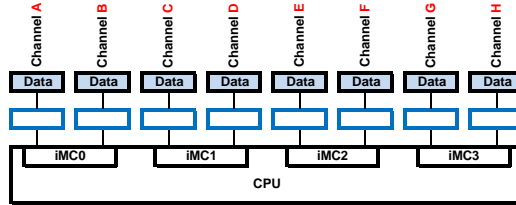
**6 DIMMs for 1CPU**

6x identical memory modules need to be populated.



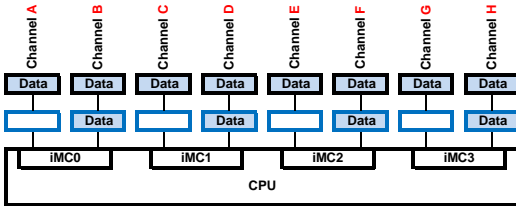
**8 DIMMs for 1CPU**

8x identical memory modules need to be populated.



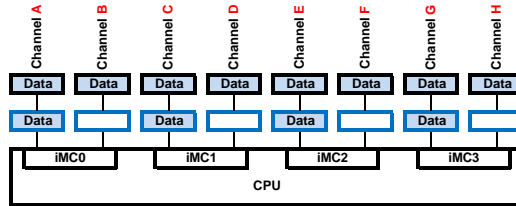
**12 DIMMs for 1CPU**

12x identical memory modules need to be populated.



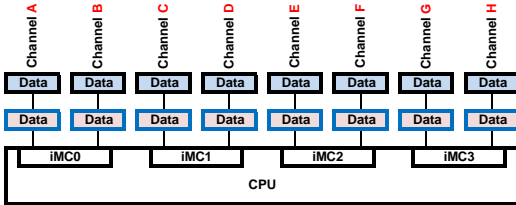
**12 DIMMs for 1CPU**

12x identical memory modules need to be populated.



**16 DIMMs for 1CPU**

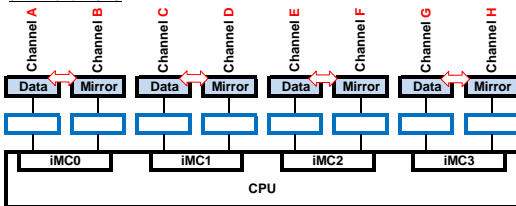
8x identical memory modules need to be populated.



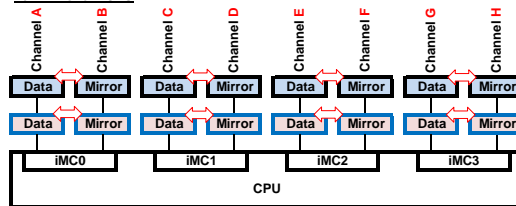
**Mirroring Mode population DDR5 DIMM only**

Mirroring Mode requires 8x or 16x DIMM configuration per CPU. In addition to Normal Mode Memory population rules, between Channel 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**



D

<b>PYBVAP10</b> <b>PY-VAP10</b>
Front VGA connector (15-pin)
Front VGA connector (15-pin) including cable and front connector
Not for 10x2.5" Base unit and short depth base units
max. 1x per system

<b>PYBVAP13</b> <b>PY-VAP13</b>	will be available in June 2023
Front VGA connector (15-pin)	
Front VGA connector (15-pin) including cable and front connector	
only for short depth base units	
max. 1x per system	

**i**  
Optional Front VGA only possible for onboard graphics

The 5th CPU can not support vGPU lisenca.

<b>PYVG4T2L</b> <b>PY-VG4T2L</b>
PGRA CP NVIDIA T400 4GB LP
NVIDIA T400
4GB PCIe 3.0 x16
Connectors: 3x Mini-DP
no cable kits included
cable must be ordered seperately
Triple head + professional 2-D + 3-D supported for Windows OS
native driver support for Linux OS
Low profile bracket
max. 1x per system

**i**  
The high end 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.  
**Remote Video direction via iRMC must be disabled.**

<b>S26361-F4066-E11</b> <b>S26361-F4066-L11</b>
MiniDP-DP ADAPTER
max. 3x per card

<b>S26361-F4066-E12</b> <b>S26361-F4066-L12</b>
DP-VGA ADAPTER
max. 3x per card

<b>S26361-F4066-E13</b> <b>S26361-F4066-L13</b>
DP-DVI ADAPTER
max. 3x per card

**NVIDIA A2/L4**

For NVIDIA GRID SW License to use the virtual graphic (GRID) functionality, a SW activation key and support license has to be purchased additionally. Please refer to additional license offerings for Virtual Applications / Virtual PC / Virtual Workstation plus SUMs (Support, Updates & Maintenance subscriptions). In addition, it is possible to use as GPGPU. In this case, there is no NVIDIA GRID SW License.  
Cards personality is set to graphic card ex factory!

<b>PYBVG4A8L</b> <b>PY-VG4A8L</b> NVIDIA A2 NVIDIA A2 Card 16GB GDDR6 memory.  PCIe x8 (Gen4) - single width, low profile bracket, no external power cable, 60W  <b>Limitation:</b> Refer to Chapter18 - Thermal Rule for the detail.  <b>PY-VG4A8L requires Cooling Kit: PY-TKPCPC88</b> *A2 requires a heat sink including Cooling Kit: PY-TKPCPC88 inspite of CPU group. If CPU group C/D is already installed without A2 and A2 as loose delivery is ordered, a number of Cooling Kit: PY-TKPCPC88 is required same as a number of CPUs.  max. 3x per system	<b>PYBVG4L1L</b> <b>PY-VG4L1L</b> NVIDIA L4 NVIDIA L4 Card 24GB GDDR6 memory.  PCIe x16 (Gen4) - single width, low profile bracket, no external power cable, 70W  <b>Limitation:</b> Refer to Chapter18 - Thermal Rule for the detail.  <b>PY-VG4L1L requires Cooling Kit: PY-TKPCPC88</b> *L4 requires a heat sink including Cooling Kit: PY-TKPCPC88 inspite of CPU group. If CPU group C/D is already installed without A2 and A2 as loose delivery is ordered, a number of Cooling Kit: PY-TKPCPC88 is required same as a number of CPUs.  max. 3x per system
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**Perpetual Software license**



**NVIDIA SUMS License (6 months) for renewal - Loose Delivery -**

<b>S26361-F4024-L956</b> NVIDIA GRID vApps Prod SUMS 6 months Renew, 1CCU NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L966</b> 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.	<b>S26361-F4024-L976</b> 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.
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**NVIDIA SUMS License (1 year) for renewal - Loose Delivery -**

<b>S26361-F4024-L901</b> NVIDIA GRID vApps Prod SUMS 1yr Renew, 1CCU NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L911</b> NVIDIA GRID vPC Prod SUMS 1yr Renew, 1 CCU NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L921</b> NVIDIA GRID vWS Prod SUMS 1yr Renew, 1 CCU NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.
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**NVIDIA SUMS License (2 years) for renewal - Loose Delivery -**

<b>S26361-F4024-L952</b> NVIDIA GRID vApps Prod SUMS 2yrs Renew, 1CCU NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L962</b> NVIDIA GRID vPC Prod SUMS 2yrs Renew, 1 CCU NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L972</b> NVIDIA GRID vWS Prod SUMS 2yrs Renew, 1 CCU NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.
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**NVIDIA SUMS License (3 years) for renewal - Loose Delivery -**

<b>S26361-F4024-L953</b> NVIDIA GRID vApps Prod SUMS 3yrs Renew, 1CCU NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L963</b> NVIDIA GRID vPC Prod SUMS 3yrs Renew, 1 CCU NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L973</b> NVIDIA GRID vWS Prod SUMS 3yrs Renew, 1 CCU NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.
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**NVIDIA SUMS License (4 years) for renewal - Loose Delivery -**

<b>S26361-F4024-L954</b> NVIDIA GRID vApps Prod SUMS 4yrs Renew, 1CCU NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L964</b> NVIDIA GRID vPC Prod SUMS 4yrs Renew, 1 CCU NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L974</b> NVIDIA GRID vWS Prod SUMS 4yrs Renew, 1 CCU NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.
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**NVIDIA SUMS License (5 years) for renewal - Loose Delivery -**

<b>S26361-F4024-L955</b> NVIDIA GRID vApps Prod SUMS 5yrs Renew, 1CCU NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L965</b> NVIDIA GRID vPC Prod SUMS 5yrs Renew, 1 CCU NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.	<b>S26361-F4024-L975</b> NVIDIA GRID vWS Prod SUMS 5yrs Renew, 1 CCU NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.
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**Information:** 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, <b>1 year</b> , 1 CCU	S26361-F4024-S113 S26361-F4024-L113 GRID Virtual Applications (vApps) Subscription License, <b>3 years</b> , 1 CCU	S26361-F4024-S115 S26361-F4024-L115 GRID Virtual Applications (vApps) Subscription License, <b>5 years</b> , 1 CCU	S26361-F4024-S211 S26361-F4024-L211 NVIDIA GRID Virtual PC (vPC) Subscription License, <b>1 year</b> , 1 CCU	S26361-F4024-S213 S26361-F4024-L213 NVIDIA GRID Virtual PC (vPC) Subscription License, <b>3 years</b> , 1 CCU	S26361-F4024-S215 S26361-F4024-L215 NVIDIA GRID Virtual PC (vPC) Subscription License, <b>5 years</b> , 1 CCU	S26361-F4024-S311 S26361-F4024-L311 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, <b>1 year</b> , 1 CCU	S26361-F4024-S313 S26361-F4024-L313 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, <b>3 years</b> , 1 CCU	S26361-F4024-S315 S26361-F4024-L315 NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Subscription License, <b>5 years</b> , 1 CCU
16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card	16x per A2 card

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

S26361-F4024-L906 NVIDIA GRID vApps Subscription License 6 months Renew, 1CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L916 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-L926 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 (1year) for renewal - Loose Delivery -**

S26361-F4024-L902 NVIDIA GRID vApps Subscription License 1yr Renew, 1CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L912 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-L922 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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**i** **NVIDIA Subscription License (2years) for renewal - Loose Delivery -**

S26361-F4024-L900 NVIDIA GRID vApps Subscription License 2yrs Renew, 1CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L910 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-L920 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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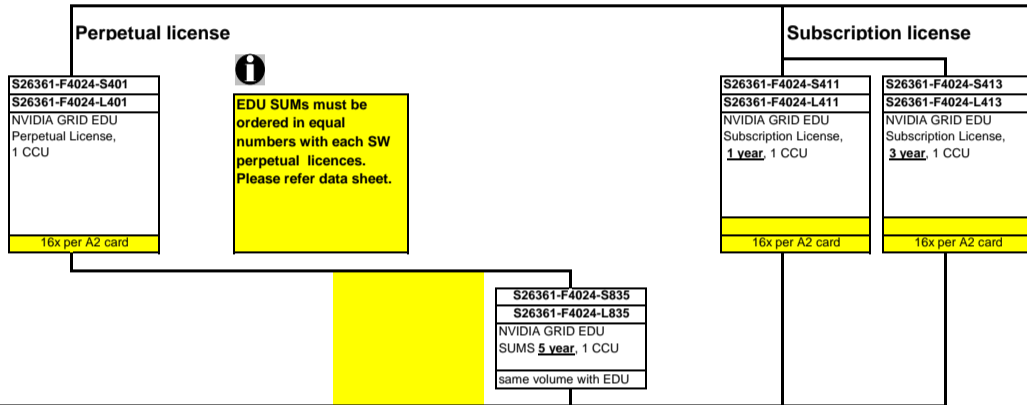
**NVIDIA Subscription License (3years) for renewal - Loose Delivery -**

S26361-F4024-L903 NVIDIA GRID vApps Subscription License 3yrs Renew, 1CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L913 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-L923 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 (5years) for renewal - Loose Delivery -**

S26361-F4024-L905 NVIDIA GRID vApps Subscription License 5yrs Renew, 1CCU NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.	S26361-F4024-L915 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-L925 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**



**i** **NVIDIA EDU SUMS License (6 months) for renewal - Loose Delivery -**

S26361-F4024-L930 NVIDIA GRID EDU SUMS 6 months Renew, 1CCU 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 (1year) for renewal - Loose Delivery -**

S26361-F4024-L931 NVIDIA GRID EDU SUMS 1yr Renew, 1CCU NVIDIA EDU SUMS License (1 year) for renewal. It needs if you need to continue EDU SUMS.
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**NVIDIA EDU SUMS License (2 years) for renewal - Loose Delivery -**

S26361-F4024-L932 NVIDIA GRID EDU SUMS 2yrs Renew, 1CCU NVIDIA EDU SUMS License (2 years) for renewal. It needs if you need to continue EDU SUMS.
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**NVIDIA EDU SUMS License (3 years) for renewal - Loose Delivery -**

S26361-F4024-L933 NVIDIA GRID EDU SUMS 3yrs Renew, 1CCU NVIDIA EDU SUMS License (3 years) for renewal. It needs if you need to continue EDU SUMS.
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**NVIDIA EDU SUMS License (4 years) for renewal - Loose Delivery -**

S26361-F4024-L934 NVIDIA GRID EDU SUMS 4yrs Renew, 1CCU NVIDIA EDU SUMS License (4 years) for renewal. It needs if you need to continue EDU SUMS.
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**NVIDIA EDU SUMS License (5 years) for renewal - Loose Delivery -**

S26361-F4024-L935 NVIDIA GRID EDU SUMS 5yrs Renew, 1CCU NVIDIA EDU SUMS License (5 years) for renewal. It needs if you need to continue EDU SUMS.
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**i** **NVIDIA Subscription License (6 months) for renewal - Loose Delivery -**

S26361-F4024-L946 NVIDIA GRID EDU Subscription License 6 months Renew, 1CCU NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.
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**NVIDIA Subscription License (1year) for renewal - Loose Delivery -**

S26361-F4024-L941 NVIDIA GRID EDU Subscription License 1yr Renew, 1CCU NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.
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**NVIDIA Subscription License (2years) for renewal - Loose Delivery -**

S26361-F4024-L942 NVIDIA GRID EDU Subscription License 2yrs Renew, 1CCU NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.
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**NVIDIA Subscription License (3years) for renewal - Loose Delivery -**

S26361-F4024-L943 NVIDIA GRID EDU Subscription License 3yrs Renew, 1CCU NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.
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E

F

Rear HDD/SSD cage option

rear 2x2.5" HDD/SSD SFF

<b>PYBBA22S5</b> Option REAR HDD/SSD
Provides 2 rear hot-plug bays for SAS/SATA HDD/SSD SFF
Note: [Thermal Restriction] Refer to Chapter18 - Thermal Rule
Note: Consumes space for PCIe slot #2, #3 Not Available with Full height riser card kit
max. 1x per system
Includes all necessary cage, backplane and cables

G

## Chapter 7 - SAS / RAID Controller

**F**

for combination and max number of controllers please see folder base / HD\_cage

onboard SATA controller with SW-RAID

**onboard controller for SATA HDD or SSD drives**

<b>6Gb/s SATA</b>	Intel VROC (SATA RAID) based on chipset	No Cache	SW-RAID 0, 1, 10	2x	<b>onboard, included</b>
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BIOS version R1.12.0 or later is required to use Intel VROC (SATA RAID)

internal HBA and RAID controller, no 2nd Level cache

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

<b>PRAID CP600i LP</b> <span style="color: red;">available from 2024/10</span>	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 supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3808					

<b>PSAS CP600i LP</b>	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					

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

<b>PRAID CP500i LP</b>	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 drives without expander supports SED (Self Encrypting Drives) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					

**internal RAID / HBA controllers for SAS, SATA HDD or SAS, SATA, PCIe SSD drives**

<b>PSAS CP 2200-16i LP</b>	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC4MA1L	PY-SC4MA1
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, without expander, up to 16 SAS/SATA drives or in mixed configuration up to 8 SAS/SATA drives and up to 2 x4 NVMe drives are supported. (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSC4MA1L and PYBSC4MA2L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					

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

<b>PSAS CP 2100-8i LP</b>	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC3MA2L	PY-SC3MA2
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					

<b>PSAS CP 2100-8i LP for vSAN</b>	No Cache	HBA, no RAID	1x	PYBSC3MAWL	-
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 PYR2537R2N / PYR2537RBN / PYR2537RDN					

**internal RAID / HBA controllers for PCIe SSD drives -Cancelled-**

<b>PSAS CP 2200-16i NVMe LP</b>	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC4MA2L	PY-SC4MA1
<b>for Chassis Variant PYR2537RBN</b> up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only or mixed configuration for up to 8 SAS/SATA drives and up to 2 x4 NVMe drives requires a different order number, please see above) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSC4MA1L and PYBSC4MA2L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SAS, SATA, PCIe SSD drives					
<b>PRAID EP740i LP</b> available from 2025/01	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4C71L</b>	<b>PY-SR4C71</b>
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, without expander, up to 16 SAS/SATA drives or in mixed configuration up to 8 SAS/SATA drives and up to 2 x4 NVMe drives are supported. (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS4116 (FYI: PYBSR4C71L and PYBSR4C72L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
internal RAID controllers for SAS, SATA HDD or SAS, SATA, PCIe SSD drives					
<b>PRAID EP640i LP</b>	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4C63L</b>	<b>PY-SR4C63</b>
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3908					
<b>PRAID EP680i LP</b>	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4C6L</b>	<b>PY-SR4C6</b>
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, without expander, up to 16 SAS/SATA drives or in mixed configuration up to 8 SAS/SATA drives and up to 2 x4 NVMe drives are supported. (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) supports SED (Self Encrypting Drives) for PRAID EP680i and PCIe SSD drives, no FBU is allowed requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
internal RAID controllers for SAS, SATA HDD or SSD drives					
<b>PRAID EP520i LP</b>	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	1x	<b>S26361-F4042-E202</b>	<b>S26361-F4042-L502</b>
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander supports SED (Self Encrypting Drives) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
<b>PRAID EP540i LP</b>	4GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	1x	<b>S26361-F4042-E214</b>	<b>S26361-F4042-L514</b>
<b>PRAID EP580i LP</b>	8GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	1x	<b>S26361-F4042-E208</b>	<b>S26361-F4042-L508</b>
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander supports SED (Self Encrypting Drives) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
optional Flash Backup Unit (FBU)					
<b>FBU option for PRAID EP5xx / EP6xx / EP7xx in internal RAID slot:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 25cm length. (For 2.5" base units)			1x	<b>PYBFBR15</b>	<b>PY-FBR14</b>
<b>FBU option for PRAID EP5xx / EP6xx / EP7xx in rear PCIe slot#1 or slot#2:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 100cm length. (For 3.5" base units or short depth models)			1x	<b>PYBFBR14</b>	<b>PY-FBR14</b>

internal RAID controllers for PCIe SSD drives					
<b>PRAID EP740i NVMe LP</b> available from 2025/01	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4C72L</b>	<b>PY-SR4C71</b>
<b>for Chassis Variant PYR2537RBN</b> up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only or mixed configuration for up to 8 SAS/SATA drives and up to 2 x4 NVMe drives requires a different order number, please see above) requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS4116 (FYI: PYBSR4C71L and PYBSR4C72L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU) available from 2025/01					
<b>FBU option for PRAID EP7xx in rear PCIe slot#1:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 100cm length. (For Type 3-10)			1x	<b>PYBFBR14</b>	<b>PY-FBR14</b>
internal RAID controllers for PCIe SSD drives					
<b>PRAID EP680i NVMe LP</b>	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4C62L</b>	<b>PY-SR4C6</b>
<b>for Chassis Variant PYR2537RBN</b> up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only or mixed configuration for up to 8 SAS/SATA drives and up to 2 x4 NVMe drives requires a different order number, please see above) no FBU is allowed for this controller requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					

internal RAID controllers for SAS, SATA HDD or SAS, SATA, PCIe SSD drives					
<b>PRAID EP 3252-8i LP</b>	2GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4MA1L</b>	<b>PY-SR4MA1</b>
<b>PRAID EP 3254-8i LP</b>	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4MA2L</b>	<b>PY-SR4MA2</b>
8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot					
<b>PRAID EP 3258-16i LP</b>	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4MA3L</b>	<b>PY-SR4MA3</b>
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, without expander, up to 16 SAS/SATA drives or in mixed configuration up to 8 SAS/SATA drives and up to 2 x4 NVMe drives are supported. (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
<b>FBU option for PRAID EP 325x in internal RAID slot:</b> 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	<b>PYBFBM011</b>	<b>PY-FBM01</b>
<b>FBU option for PRAID EP 325x in rear PCIe slot#1 or slot#2:</b> 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	<b>PYBFBM013</b>	<b>PY-FBM01</b>

<b>internal RAID controllers for PCIe SSD drives -Cancelled-</b>					
<b>PRAID EP 3258-16i NVMe LP</b>	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	<b>PYBSR4MA4L</b>	<b>PY-SR4MA3</b>
<b>for Chassis Variant PYR2537RBN</b>					
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only or mixed configuration for up to 8 SAS/SATA drives and up to 2 x4 NVMe drives requires a different order number, please see above)					
requires 1x LP PCIe 4.0 x8 (int.) slot					
(FYI: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
<b>FBU option for PRAID EP 325x in rear PCIe slot#1:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length. (For Type 3-10)					
			1x	<b>PYBFBM013</b>	<b>PY-FBM01</b>

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  
up to 1x for internal RAID slot and up to 1x for rear PCIe slots

**[Standard model] Cable kit for upgrade cards: For upgrade, L-parts Cable kit is available.**  
Cable Kit for EP6xxi/CP6xxi/EP7xxi/EP325x/CP2200-16i: **PY-CBS105**  
Cable Kit for CP2100-8i/ PRAID CP500i / PRAID EP520i / PRAID EP540i / PRAID EP580i: **PY-CBS106**  
Internal RAID riser module: **PY-PREM03**

**[Short depth model] Cable kit for upgrade cards: For upgrade, L-parts Cable kit is available.**  
Cable Kit for EP6xxi/CP6xxi/EP7xxi/EP325x/CP2200-16i: **PY-CBS112**  
Cable Kit for CP2100-8i/ PRAID CP500i / PRAID EP520i / PRAID EP540i / PRAID EP580i: **PY-CBS113**

**Group A and Group B cannot be mixed**  
**Group A and Group C can be mixed**  
**Group B and Group C can be mixed**

Group A	Group B	Group C
PRAID CP600i	PSAS CP 2200-16i	PSAS CP600e
PSAS CP600i	PSAS-CP-2200-16i-NVMe	PRAID EP680e
PRAID CP500i	PSAS CP 2100-8i	PDUAL CP100
PRAID EP740i	PSAS CP 2100-8i for vSAN	PDUAL CP300
PRAID EP740i NVMe	PRAID EP 3252-8i	
PRAID EP640i	PRAID EP 3254-8i	
PRAID EP680i	PRAID EP 3258-16i	
PRAID EP680i NVMe	PRAID-EP-3258-16i NVMe	
PRAID EP520i		
PRAID EP540i		
PRAID EP580i		

**G**

external HBA controller, no 2nd Level cache

<b>external HBA controllers for SAS HDD or SSD drives</b>					
<b>PSAS CP600e LP</b>	No Cache	HBA, no RAID	2x	<b>PYBSC4FAEL</b>	<b>PY-SC4FAE</b>
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 RAID controller with 2nd Level cache

<b>external RAID controllers for SAS HDD or SSD drives</b>					
<b>PRAID EP680e LP</b>	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	<b>PYBSR4C6EL</b>	<b>PY-SR4C6E</b>
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD)					
supports SED (Self Encrypting Drives)					
requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916					
optional Flash Backup Unit (FBU)					
<b>FBU option for PRAID EP6xx in rear PCIe slot:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 100cm length					
			1x	<b>PYBFBR14</b>	<b>PY-FBR14</b>

internal controller for PCIe SSD (NVMe SSD), no HW-RAID

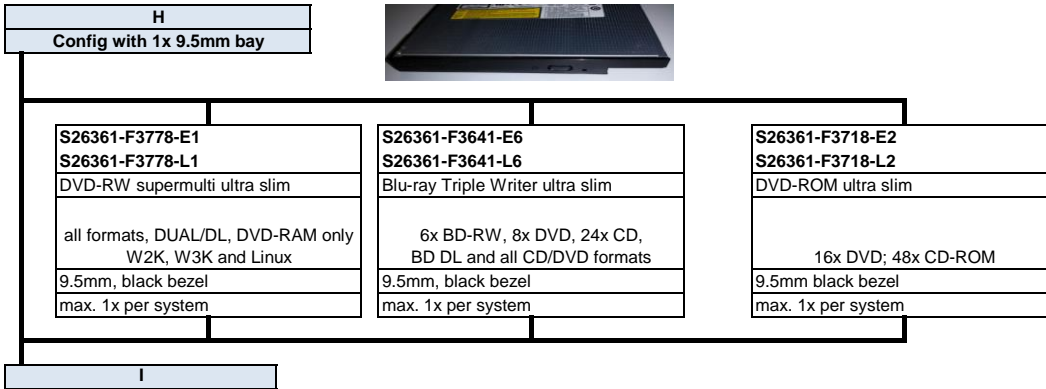
<b>internal controller for PCIe SSD (NVMe SSD)</b>					
<b>PCIe</b>	Intel CPU	No Cache	No HW-RAID	-	<b>onboard, included</b>
optional Licence Activation Key for Intel VROC (VMD NVMe RAID)					
Intel VROC Upgrade Key Premium	Intel CPU	No Cache	SW-RAID 0, 1, 10, 5 *	1x	<b>PYBRLVR02</b> <b>PY-RLVR02</b>

BIOS version R1.12.0 or later is required to use Intel VROC (VMD NVMe RAID)  
\* RAID 1 is only supported In VMware ESXi.

**H**

## Chapter 8 - ODD optical disk drives

The 10x 2,5" base unit does NOT feature ODD



## Chapter 10 - storage drives

SATA drives can be connected to the onboard Controller (max. 8x), or require a dedicated SAS / RAID Controller. SAS drives require a dedicated SAS / RAID Controller.  
 PCIe-SSDs can be connected to the onboard Controller, or require a dedicated RAID Controller or PCIe retimer/switch card. FIPS and SED drives are Self Encrypting Drives, and they require either a RAID controller with SED support or an HBA and in addition a software instance, supporting SED Key Management. It is strongly recommended to order a RAID controller with SED function for SED/FIPS drives.

SATA, SAS and PCIe drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume. FIPS and SED drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume. One logical RAID volume must be created the same order code products.

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.  
 DWPD: Drive Writes Per Day over 5 years.

When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.  
<https://kb.vmware.com/kb/2145210>

**HDD Classes:**  
 Economic (ECO) SATA: Entry Class Drives, for non critical applications.  
 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 <b>Kioxia PM7</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10		PYBSS80NGF	PY-SS80NGF
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10		PYBSS16NGF	PY-SS16NGF
800GB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED	PYBSS80NGG	PY-SS80NGG
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED	PYBSS16NGG	PY-SS16NGG

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Seagate Nytro3732/3750</b> 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 <b>Kioxia PM7</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		PYBSS16NPM	PY-SS16NPM
3.2TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		PYBSS32NPM	PY-SS32NPM
6.4TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		PYBSS64NPM	PY-SS64NPM

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Seagate Nytro3532/3550</b> 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 <b>Kioxia PM7</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
1.92TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1			
3.84TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	PYBSS19NNM	PY-SS19NNM	
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	PYBSS38NNL	PY-SS38NNL	
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	PYBSS76NNM	PY-SS76NNM	
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	PYBSS15NNL	PY-SS15NNL	
15.36TB	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	PYBSS15NNN	PY-SS15NNN

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Samsung PM1653</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	SED	PYBSS96NNM	PY-SS96NNM
1.92TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS19NNP	PY-SS19NNP
3.84TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS38NNH	PY-SS38NNH
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS76NNP	PY-SS76NNP
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS15NNH	PY-SS15NNH

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 12x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Seagate Nytro3332/3350</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1			
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	PYBSS96NNJ	PY-SS96NNJ	
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	PYBSS19NNH	PY-SS19NNH	
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1	PYBSS38NNH	PY-SS38NNH	
15.36TB	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

The SSDs not released with PRAID CP500i

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Samsung PM897a</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS48NKS	PY-SS48NKS
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS96NKS	PY-SS96NKS
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS19NKS	PY-SS19NKS
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS38NKS	PY-SS38NKS

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 12x - depending on base unit & configuration

EOL, as long as stock available

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Samsung PM897</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3			
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS48NKQ	PY-SS48NKQ	
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PYBSS96NKQ	PY-SS96NKQ	
3.84TB	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" Mixed Use (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Micron 5300/5400 MAX</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
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

The SSDs not released with PRAID CP500i

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Samsung PM893a</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part	
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBSS48NME	PY-SS48NME
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBSS96NME	PY-SS96NME
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBSS19NME	PY-SS19NME
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBSS38NME	PY-SS38NME
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBSS76NME	PY-SS76NME

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 12x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM893</b> 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		
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	PYBSS24NMD	PY-SS24NMD
960GB	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

EOL, as long as stock available

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Micron 5300/5400 PRO</b> 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

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## 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. 12x - depending on base unit &amp; configuration

**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
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5729-E112	S26361-F5729-L112
300GB	10 000	SAS 12Gb/s	512n	PYBSH301EU	PY-SH301EU
600GB	10 000	SAS 12Gb/s	512n	PYBSH601EU	PY-SH601EU
1.2TB	10 000	SAS 12Gb/s	512n	PYBSH121EU	PY-SH121EU

max. 12x - depending on base unit &amp; configuration

**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
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5730-E118	S26361-F5730-L118
2.4TB	10 000	SAS 12Gb/s	512e	S26361-F5543-E124	S26361-F5543-L124
1.8TB	10 000	SAS 12Gb/s	512e	PYBSH181DU	PY-SH181DU
2.4TB	10 000	SAS 12Gb/s	512e	S26361-F5582-E124	S26361-F5582-L124

max. 12x - depending on base unit &amp; configuration

EOL, as long as stock available

**HDD SAS 2.5" 7.2K 512n** (SFF) Enterprise Business Critical with hot plug/hot replace tray

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1TB	7 200	SAS 12Gb/s	512n	S26361-F5600-E100	S26361-F5600-L100
2TB	7 200	SAS 12Gb/s	512n	S26361-F5600-E200	S26361-F5600-L200

max. 12x - depending on base unit &amp; configuration

EOL, as long as stock available

**HDD SATA 2.5" 7.2K 512n** (SFF) 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	S26361-F3956-E100	S26361-F3956-L100

max. 12x - depending on base unit &amp; configuration

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## 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 tray**based on **Kioxia PM7** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
800GB	3.5" (LFF)	SAS 24Gb/s	Write Intensive	10	PYBTS80NGC	PY-TS80NGC
1.6TB	3.5" (LFF)	SAS 24Gb/s	Write Intensive	10	PYBTS16NGC	PY-TS16NGC

max. 4x - depending on base unit &amp; configuration

**SSD SAS 3.5" Write Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray**based on **Seagate Nytro3732/3750** 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 &amp; configuration

**SSD SAS 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray**based on **Kioxia PM7** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.6TB	3.5" (LFF)	SAS 24Gb/s	Mixed Use	3	PYBTS16NPJ	PY-TS16NPJ
3.2TB	3.5" (LFF)	SAS 24Gb/s	Mixed Use	3	PYBTS32NPJ	PY-TS32NPJ
6.4TB	3.5" (LFF)	SAS 24Gb/s	Mixed Use	3	PYBTS64NPJ	PY-TS64NPJ

max. 4x - depending on base unit &amp; configuration

**SSD SAS 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray**based on **Seagate Nytro3532/3550** 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 &amp; configuration

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

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
1.92TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	PYBTS19NNH	PY-TS19NNH
3.84TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	PYBTS38NNH	PY-TS38NNH
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
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS15NN2

max. 4x - depending on base unit &amp; configuration

**SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray**based on **Samsung PM1653** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
960GB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS96NNH
1.92TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS19NNJ
3.84TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS38NNJ
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS76NNL
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBTS15NN3

**This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.**

max. 4x - depending on base unit &amp; configuration

SSD SAS 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Seagate Nytro3332/3350 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

The SSDs not released with PRAID CP500i

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Samsung PM897a drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS48NK9	PY-TS48NK9
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS96NK9	PY-TS96NK9
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS19NK9	PY-TS19NK9
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS38NK9	PY-TS38NK9

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 4x - depending on base unit & configuration

EOL, as long as stock available

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based 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" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Micron 5300/5400 MAX drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
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

The SSDs not released with PRAID CP500i

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Samsung PM893a drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS48NMB	PY-TS48NMB
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS96NMA	PY-TS96NMA
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS19NMA	PY-TS19NMA
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS38NMA	PY-TS38NMA
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS76NMA	PY-TS76NMA

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 4x - depending on base unit & configuration

EOL, as long as stock available

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

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on Micron 5300/5400 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

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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 &amp; 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
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5728-E112	S26361-F5728-L112

max. 4x - depending on base unit &amp; 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	S26361-F5731-E118	S26361-F5731-L118

max. 4x - depending on base unit &amp; 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	
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	
20TB	7 200	SAS 12Gb/s	512e	PYBCHLT7B	PY-CHLT7B	
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 &amp; 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	PYBBH17B9	PY-BH17B9
2TB	7 200	SATA 6Gb/s	512n	PYBBH27B9	PY-BH27B9
4TB	7 200	SATA 6Gb/s	512n	PYBBH47B9	PY-BH47B9

max. 4x - depending on base unit &amp; 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
12TB	7 200	SATA 6Gb/s	512e	PYBBHCT7E4	PY-BHCT7E4
14TB	7 200	SATA 6Gb/s	512e	PYBBHET7E4	PY-BHET7E4
16TB	7 200	SATA 6Gb/s	512e	S26361-F3904-E160	S26361-F3904-L160
18TB	7 200	SATA 6Gb/s	512e	PYBBHJT7E2	PY-BHJT7E2

max. 4x - depending on base unit &amp; configuration

**M.2 SATA SSD**

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

**M.2 Riser Kit**

<b>PYBPREM01</b>
<b>PY-PRM01</b>
provides two M.2 Connectors not available for short depth models
max 1x for system
No mixed with PDUAL CP100 and CP300 For standard base units

**SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi**

based on Micron 5300/5400 PRO drives

Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot	<b>S26361-F5787-E240</b>	<b>S26361-F5816-L240</b>

M.2 drive is designed for use as a VMware ESXi boot drive.  
max. 1x per Server; M.2 Riser Kit is required. (please see folder "description"). VMware ESXi is only supported.  
2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

**SSD SATA M.2 drive for booting, non hot-plug**

based on Micron 5300/5400 PRO drives (960GB is 5400 only)

Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot	<b>S26361-F5787-E240</b>	<b>S26361-F5787-L240</b>
480GB	M.2	SATA 6Gb/s	1,5	Boot	<b>S26361-F5787-E480</b>	<b>S26361-F5787-L480</b>
960GB	M.2 2280	SATA 6Gb/s	1,5	Boot	<b>PYBMF96YN</b>	<b>PY-MF96YN</b>

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; M.2 Riser Kit is required. (please see folder "description"). VMware is not supported.  
2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

**SSD PCIe M.2 drive for booting, non hot-plug**

based on Micron 7450 PRO drives

Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
480GB	M.2 2280	PCIe4.0 x4	0,9	Boot	<b>PYBBS48PEA</b>	<b>PY-BS48PEA</b>
960GB	M.2 2280	PCIe4.0 x4	0,9	Boot	<b>PYBBS96PEA</b>	<b>PY-BS96PEA</b>

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.  
max. 2x per Server; M.2 Riser Kit is required. (please see folder "description"). **2x M.2 drives require Intel VROC Upgrade Key Premium(PYBRLVR02).**  
2x M.2 drives required; in case M.2 drives are used with PDUAL CP300.

**Dual M.2**

PDUAL CP100, CP300 and M.2 Riser Kit cannot be mixed

**PDUAL CP100, dual M.2 for booting, non hot-plug**

Capacity	Formfactor	Interface	Category	order code E-part	order code L-part
n/a	AIC	PCIe	Boot LP	<b>PYBDMCP24L</b>	<b>PY-DMCP24</b>

PDUAL CP100 is a carrier of 2x SSD SATA M.2 drives, which offers RAID1 with the 2x SSD M.2 drives.  
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 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 SATA M.2 drives.

**PDUAL CP300, dual M.2 for booting, non hot-plug**

Capacity	Formfactor	Interface	Category	order code E-part	order code L-part
n/a	AIC	PCIe	Boot LP	<b>PYBDMCP35L</b>	<b>PY-DMCP35</b>

PDUAL CP300 is a carrier of 2x SSD SATA or PCIe 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)  
SSD PCIe M.2 480GB/960GB. (PY\*BS48PEA/PY\*BS96PEA)  
max. 1x per Server, requires 2x SSD M.2 drives.

**RAID PRESET option**

Component	order code E-part	order code L-part
pre-config. RAID1 Array for M.2 in PDUAL	<b>S26361-F5659-E13</b>	-

This option allows pre-configuration of 2x M.2 modules to a RAID1 Array with PDUAL CP100 or CP300 ex factory.  
max. 1x per Server, requires 1x PDUAL CP100 or CP300.

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2.5" (SFF) PCIe-SSD

For hot plug support : RAID controller supported with PCIe-SSD is needed.  
VMD is needed without RAID controller.**PCIe-SSD 2.5" P5800X (SFF)** Enterprise with hot plug/hot replace tray

based on Intel P5800X drives

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 &amp; configuration

limitation : can not support VMD / VROC so far supported 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 &amp; 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 &amp; configuration

limitation : can not support VMD / VROC so far supported 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 &amp; 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 &amp; configuration

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## Chapter 10 - storage drives

SATA drives can be connected to the onboard Controller (max. 8x), or require a dedicated SAS / RAID Controller.  
 SAS drives require a dedicated SAS / RAID Controller.  
 PCIe-SSDs can be connected to the onboard Controller, or require a dedicated RAID Controller or PCIe retimer/switch card.  
 FIPS and SED drives are Self Encrypting Drives, and they require either a RAID controller with SED support or an HBA and in addition a software instance, supporting SED Key Management. It is strongly recommended to order a RAID controller with SED function for SED/FIPS drives.

SATA, SAS and PCIe drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume.  
 FIPS and SED drives can be mixed based on RAID spec, but cannot be used in one logical RAID volume.  
 One logical RAID volume must be created the same order code products.

**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.  
 DWPDP: Drive Writes Per Day over 5 years.

When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.  
<https://kb.vmware.com/kb/2145210>

**HDD Classes:**

Economic (ECO) SATA: Entry Class Drives, **for non critical applications.**  
 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 <b>Kioxia PM7</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10		<b>PYBSS80NGF</b>	<b>PY-SS80NGF</b>
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10		<b>PYBSS16NGF</b>	<b>PY-SS16NGF</b>
800GB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED	<b>PYBSS80NGG</b>	<b>PY-SS80NGG</b>
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED	<b>PYBSS16NGG</b>	<b>PY-SS16NGG</b>

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Seagate Nytro3732/3750</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		<b>PYBSS40NGA</b>	<b>PY-SS40NGA</b>
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		<b>PYBSS80NGA</b>	<b>PY-SS80NGA</b>
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		<b>PYBSS16NGA</b>	<b>PY-SS16NGA</b>
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	<b>PYBSS40NGW</b>	<b>PY-SS40NGW</b>
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	<b>PYBSS80NGW</b>	<b>PY-SS80NGW</b>
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	<b>PYBSS16NGW</b>	<b>PY-SS16NGW</b>

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Kioxia PM7</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		<b>PYBSS16NPM</b>	<b>PY-SS16NPM</b>
3.2TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		<b>PYBSS32NPM</b>	<b>PY-SS32NPM</b>
6.4TB	2.5" (SFF)	SAS 24Gb/s	Mixed Use	3		<b>PYBSS64NPM</b>	<b>PY-SS64NPM</b>

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray							
based on <b>Seagate Nytro3532/3550</b> drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		<b>PYBSS80NPF</b>	<b>PY-SS80NPF</b>
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		<b>PYBSS16NPF</b>	<b>PY-SS16NPF</b>
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		<b>PYBSS32NPF</b>	<b>PY-SS32NPF</b>
6.4TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		<b>PYBSS64NPF</b>	<b>PY-SS64NPF</b>

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Kioxia PM7</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part      order code L-part
1.92TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1		PYBSS19NNM      PY-SS19NNM
3.84TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1		PYBSS38NNL      PY-SS38NNL
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		PYBSS15NNL      PY-SS15NNL
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	PYBSS15NNN      PY-SS15NNN

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM1653</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part      order code L-part
960GB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS96NNM      PY-SS96NNM
1.92TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS19NNP      PY-SS19NNP
3.84TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS38NNN      PY-SS38NNN
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS76NNP      PY-SS76NNP
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS15NNN      PY-SS15NNN

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 10x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Seagate Nytro3332/3350</b> 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. 10x - depending on base unit & configuration

The SSDs not released with PRAID CP500i

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM897a</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part      order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS48NKS      PY-SS48NKS
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS96NKS      PY-SS96NKS
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS19NKS      PY-SS19NKS
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS38NKS      PY-SS38NKS

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 10x - depending on base unit & configuration

EOL, as long as stock available

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM897</b> 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. 10x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Micron 5300/5400 MAX</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part      order code L-part
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. 10x - depending on base unit & configuration

The SSDs not released with PRAID CP500i

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM893a</b> drives						
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part      order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS48NME      PY-SS48NME
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS96NME      PY-SS96NME
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS19NME      PY-SS19NME
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS38NME      PY-SS38NME
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS76NME      PY-SS76NME

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.

max. 10x - depending on base unit & configuration

EOL, as long as stock available

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Samsung PM893</b> 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. 10x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray						
based on <b>Micron 5300/5400 PRO</b> 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. 10x - depending on base unit & configuration

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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 &amp; configuration

**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
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5729-E112	S26361-F5729-L112
300GB	10 000	SAS 12Gb/s	512n	PYBSH301EU	PY-SH301EU
600GB	10 000	SAS 12Gb/s	512n	PYBSH601EU	PY-SH601EU
1.2TB	10 000	SAS 12Gb/s	512n	PYBSH121EU	PY-SH121EU

max. 10x - depending on base unit &amp; configuration

**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
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5730-E118	S26361-F5730-L118
1.8TB	10 000	SAS 12Gb/s	512e	PYBSH181DU	PY-SH181DU

max. 10x - depending on base unit &amp; configuration

EOL, as long as stock available

**HDD SATA 2.5" 7.2K 512n (SFF) 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	S26361-F3956-E100	S26361-F3956-L100

max. 10x - depending on base unit &amp; configuration

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## M.2 SATA SSD

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

\*available in Dec 2023

## M.2 carrier card kit

PYBDMAP02

PY-DMAP02

provides two M.2 Connectors  
not available for standard base units  
installed on PCIe slot

max 1x for system

No mixed with PDUAL CP100 and CP300

For short depth base units

## SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi

based on Micron 5300/5400 PRO drives

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

M.2 drive is designed for use as a VMware ESXi boot drive.

max. 1x per Server; M.2 carrier card kit is required. (please see folder "description"). VMware ESXi is only supported.

2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

## SSD SATA M.2 drive for booting, non hot-plug

based on Micron 5300/5400 PRO drives (960GB is 5400 only)

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.

max. 2x per Server; M.2 carrier card kit is required. (please see folder "description"). VMware is not supported.

2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

## SSD PCIe M.2 drive for booting, non hot-plug

based on Micron 7450 PRO drives

Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
480GB	M.2 2280	PCIe4.0 x4	0,9	Boot	PYBBS48PEA	PY-BS48PEA
960GB	M.2 2280	PCIe4.0 x4	0,9	Boot	PYBBS96PEA	PY-BS96PEA

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.

max. 2x per Server; M.2 carrier card kit is required. (please see folder "description"). 2x M.2 drives require Intel VROC Upgrade Key Premium(PYBRLVR02).

2x M.2 drives required; in case M.2 drives are used with PDUAL CP300.

## Dual M.2

PDUAL CP100, CP300 and M.2 Riser Kit 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 of 2x SSD SATA M.2 drives, which offers RAID1 with the 2x SSD M.2 drives.

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 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 SATA M.2 drives.

## PDUAL CP300, 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	PYBDMCP35L	PY-DMCP35

PDUAL CP300 is a carrier of 2x SSD SATA or PCIe 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)

SSD PCIe M.2 480GB/960GB. (PY\*BS48PEA/PY\*BS96PEA)

max. 1x per Server, requires 2x SSD 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 or CP300 ex factory.

max. 1x per Server, requires 1x PDUAL CP100 or CP300.

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2.5" (SFF) PCIe-SSD

For hot plug support : RAID controller supported with PCIe-SSD is needed.  
VMD is needed without RAID controller.

**PCIe-SSD 2.5" P5800X (SFF)** Enterprise with hot plug/hot replace tray

based on Intel P5800X drives

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 &amp; configuration

**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 &amp; 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 &amp; configuration

**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 &amp; 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 &amp; configuration

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**Chapter 11 - LAN Components**

**OCVp3 LoM Adapter**

<b>Intel 1GbE BASE-T for OCPv3</b>				
PLAN CP I350-T4 4X 1000BASE-T OCPv3 IL	2x	Intel, 1GTx4port	PYBLA274U2	PY-LA274U2
max. 2 adapters per system				
<b>Broadcom 1GbE BASE-T for OCPv3</b>				
PLAN CP N41T 4X 1000BASE-T OCPv3 IL	2x	Broadcom, 1GTx4port	PYBLA284U2	PY-LA284U2
max. 2 adapters per system				
<b>Broadcom 10GbE BASE-T for OCPv3</b>				
PLAN EP N210TP 2X 10GBASE-T OCPv3 IL	2x	Broadcom, 10GTx2port	PYBLA3K2U2	PY-LA3K2U2
max. 2 adapters per system				
<b>Intel 10GbE BASE-T for OCPv3</b>				
PLAN EP X710-T2L 2X 10GBASE-T OCPv3 IL	2x	Intel, 10GTx2port	PYBLA342U2	PY-LA342U2
PLAN EP X710-T4L 4X 10GBASE-T OCPv3 IL	2x	Intel, 10GTx4port	PYBLA344U2	PY-LA344U2
max. 2 adapters per system				
<b>Broadcom 10GbE for OCPv3</b>				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. <b>All ports on this card need to install the same Parts Number of optical module.</b>				
PLAN EP N210P 2X 10G SFP+ OCPv3 IL	2x	Broadcom, 10Gx2port	PYBLA3J2U2	PY-LA3J2U2
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
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				
<b>Intel 10GbE for OCPv3</b>				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. <b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP X710-DA2 2X 10G SFP+ OCPv3 IL	2x	Intel, 10Gx2port	PYBLA352U2	PY-LA352U2
PLAN EP X710-DA4 4X 10G SFP+ OCPv3 IL	2x	Intel, 10Gx4port	PYBLA354U2	PY-LA354U2
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
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				
<b>Broadcom 25GbE for OCPv3</b>				
Each cage consumes 1x optical SFP28				
<b>10G SFP BTO is not available for 25G cards, please select L parts.</b>				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP N225PI 25Gb 2p SFP28 OCPv3	2x	Broadcom, 25Gx2port	PYBLA3G2U2	PY-LA3G2U2
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	2x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
max. 1x per port				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
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
max. 1x per port				
max. 2 adapters per system				
<b>NVIDIA 25GbE for OCPv3</b>				
Each cage consumes 1x optical SFP28				
<b>10G SFP BTO is not available for 25G cards, please select L parts.</b>				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP MCX6-LX 25Gb 2p SFP28 OCPv3 IL	2x	NVIDIA, 25Gx2port	PYBLA402U5	PY-LA402U5
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	2x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	NVIDIA, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
SFP28 25G LR MMA2L20-AR LC	2x	NVIDIA, 25G LR SFP28	PYBSFPL10	PY-SFPL10
max. 1x per port				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
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
max. 1x per port				
max. 2 adapters per system				

Will be available from 3Q,CY2024

**Intel 25GbE for OCPv3**

Each cage consumes 1x optical SFP28 or SFP+ transceiver per port.  
**All ports on this card can install the same Parts Number of optical module.**  
**10G SFP BTO is not available for 25G cards, please select L parts.**

PLAN CP E810-XXVDA2 2x25Gb OCPv3 IL	2x	Intel, 25Gx2port	PYBLA402U2	PY-LA402U2
PLAN CP E810-XXVDA4 4x25Gb OCPv3 IL	2x	Intel, 25Gx4port	PYBLA404U2	PY-LA404U2
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
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
<i>max. 1x per port</i>				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	4x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	4x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
<i>max. 2 adapters per system</i>				

**Broadcom 100GbE for OCPv3**

Each cage consumes 1x optical QSFP28  
 The QSFP will not ship on the card because it will interfere with the shipping box.  
**All ports on this card can install the same Parts Number of optical module.**

PLAN EP N2100GI 100Gb 2p QSFP56 OCPv3	2x	Broadcom, 100Gx2port	PYBLA452U2	PY-LA452U2
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 E100GQSFP28SRX MPO	2x	Intel, 100G SR4 QSFP28	PYBSFPS54	PY-SFPS54
QSFP28 100G LR4 FTLC1154RDPL LC	2x	II-VI, 100G LR4 QSFP28	PYBSFPL08	PY-SFPL08
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	NVIDIA, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	NVIDIA, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
<i>max. 2x per system</i>				

Will be available from 3Q,CY2024

**Intel 100GbE for OCPv3**

Each cage consumes 1x optical QSFP28  
 The QSFP will not ship on the card because it will interfere with the shipping box.  
**All ports on this card can install the same Parts Number of optical module.**

PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3 IL	2x	Intel, 100Gx2port	PYBLA432U2	PY-LA432U2
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 E100GQSFP28SRX MPO	2x	Intel, 100G SR4 QSFP28	PYBSFPS54	PY-SFPS54
QSFP28 100G LR4 FTLC1154RDPL LC	2x	II-VI, 100G LR4 QSFP28	PYBSFPL08	PY-SFPL08
<i>max. 1x per port</i>				
<i>max. 2x per system</i>				

**NVIDIA 100GbE for OCPv3**

Each cage consumes 1x optical QSFP28  
 The QSFP will not ship on the card because it will interfere with the shipping box.  
**All ports on this card can install the same Parts Number of optical module.**

PLAN EP MCX6-DX 2X 100G QSFP28 OCPv3 IL	1x	NVIDIA, 100Gx2port <i>*cannot be selected with IB.</i>	PYBLA412U2	PY-LA412U2
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	NVIDIA, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	NVIDIA, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
<i>max. 1x per system</i>				

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 2x1Gbit Cu Intel I350-T2 LP	3x	Intel, 1GTx2port	S26361-F4610-E202	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	3x	Intel, 1GTx4port	S26361-F4610-E204	S26361-F4610-L504
max. 3 adapters per system				

Will be available from 2Q,CY2024

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. <b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP P210P 2x10Gb SFP PCIe LP	3x	Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
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. <b>All ports on this card can install the same Parts Number of optical module.</b>				
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
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
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				

Broadcom 25GbE for PCIe				
Each cage consumes 1x optical SFP28. <b>All ports on this card can install the same Parts Number of optical module.</b> <b>10G SFP BTO is not available for 25G cards, please select L parts.</b>				
PLAN EP P225P 25Gb 2p SFP28 PCIe LP	3x	Broadcom, 25Gx2port	PYBLA3H2L	PY-LA3H2
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	2x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
max. 1x per port				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
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
max. 1x per port				
max. 3x adapters per server system				

NVIDIA 25GbE for PCIe				
Each cage consumes 1x optical SFP28 <b>All ports on this card can install the same Parts Number of optical module.</b> <b>10G SFP BTO is not available for 25G cards, please select L parts.</b>				
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	3x	NVIDIA, 25Gx2port	PYBLA402L4	PY-LA4024
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	2x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	NVIDIA, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
SFP28 25G LR MMA2L20-AR LC	2x	NVIDIA, 25G LR SFP28	PYBSFPL10	PY-SFPL10
max. 1x per port				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
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
max. 1x per port				
max. 3x adapters per server system				

Intel 25GbE for PCIe				
Each cage consumes 1x optical SFP28.				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
<b>10G SFP BTO is not available for 25G cards, please select L parts.</b>				
PLAN EP E810-XXVDA2 2X 25G SFP28 LP	3x	Intel, 25Gx2port	PYBLA402L	PY-LA402
PLAN EP E810-XXVDA4 4X 25G SFP28 LP	3x	Intel, 25Gx4port	PYBLA404L	PY-LA404
<b>Optional, 25Gb SFP28 optical transceiver module, select one per cage</b>				
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
<i>max. 1x per port</i>				
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage</b>				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	4x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	4x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
max. 3x adapters per server system				

Broadcom 100GbE for PCIe				
Each cage consumes 1x optical QSFP28				
The QSFP will not ship on the card because it will interfere with the shipping box.				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP P2100G 100Gb 2p QSFP56 PCIe LP	3x	Broadcom, 100Gx2port	PYBLA442L	PY-LA442
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 E100GQSFP28SRX MPO	2x	Intel, 100G SR4 QSFP28	PYBSFPS54	PY-SFPS54
QSFP28 100G LR4 FTLC1154RDPL LC	2x	II-VI, 100G LR4 QSFP28	PYBSFPL08	PY-SFPL08
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	NVIDIA, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	NVIDIA, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
max. 3x adapters per server system				

Will be available on 5th gen CPU 2Q,2024

Intel 100GbE for PCIe				
Each cage consumes 1x optical QSFP28				
The QSFP will not ship on the card because it will interfere with the shipping box.				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP E810-CQDA2 2X 100G QSFP28 LP	3x	Intel, 100Gx2port	PYBLA432L	PY-LA432
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 E100GQSFP28SRX MPO	2x	Intel, 100G SR4 QSFP28	PYBSFPS54	PY-SFPS54
QSFP28 100G LR4 FTLC1154RDPL LC	2x	II-VI, 100G LR4 QSFP28	PYBSFPL08	PY-SFPL08
<i>max. 1x per port</i>				
max. 3x adapters per server system				

NVIDIA 100GbE for PCIe				
Each cage consumes 1x optical QSFP28				
The QSFP will not ship on the card because it will interfere with the shipping box.				
<b>All ports on this card can install the same Parts Number of optical module.</b>				
PLAN EP MCX6-DX 2X 100G QSFP28 LP	3x	NVIDIA, 100Gx2port <b>*cannot be selected with IB.</b>	PYBLA412L	PY-LA412
<b>Optional, 100Gb QSFP28 Optical Transceiver module</b>				
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	NVIDIA, 100G SR4 QSFP28	S26361-F4052-E701	S26361-F4052-L701
QSFP28 100G LR4 MMA1L10-CR LC	2x	NVIDIA, 100G LR4 QSFP28	PYBSFPL11	PY-SFPL11
<i>max. 1x per port</i>				
max. 3x adapters per server system				

K

## Chapter 12 - Fibre Channel Adapters

K

64G Fibre Channel adapters with LC interface for 50µm optical cables (OM4 or OM3)				
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 50µm optical cables (OM4 or OM3)				
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 50µm optical cables (OM4 or OM3)				
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**

<b>S26361-F5756-L102</b> <b>S26361-F5756-E102</b> 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]/PY-LA402U5/PYBLA402U5/PY-LA02U05/PYBLA02U05 /PY-LA4024/PYBLA4024/PYBLA402L4/ **AOC cannot be supported  1x Q-SFP+ connector PCIe Gen4 x16 LP Card, 170mm max. 2x per system	<b>PY-HC402</b> <b>PYBHC402</b> 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]/PY-LA402U5/PYBLA402U5/PY-LA02U05/PYBLA02U05 /PY-LA4024/PYBLA4024/PYBLA402L4/ **AOC cannot be supported  2x Q-SFP+ connector PCIe Gen4 x16 LP Card, 170mm max. 2x per system	<b>PY-HC541</b> <b>PYBHC541</b> 1 port 400Gb infiniband NDR (ConnectX-7) 400Gbit 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]/PY-LA402U5/PYBLA402U5/PY-LA02U05/PYBLA02U05 /PY-LA4024/PYBLA4024/PYBLA402L4/ **AOC cannot be supported  1x O-SFP+ connector PCIe Gen5 x16 LP Card, 170mm max. 2x per system	<b>PY-HC521</b> <b>PYBHC521</b> 1 port 200Gb infiniband NDR200 (ConnectX-7) 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]/PY-LA402U5/PYBLA402U5/PY-LA02U05/PYBLA02U05 /PY-LA4024/PYBLA4024/PYBLA402L4/ **AOC cannot be supported  1x O-SFP+ connector PCIe Gen5 x16 LP Card, 170mm max. 2x per system
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For loose delivery and in Rack customizing

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

L



## 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.	Connector type: C13, APAC/JAPAN region only, <span style="color: red;">Not support ATD40/45</span>	PYBPU501	PY-PU501
500W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V, <span style="color: red;">Not support ATD40/45</span>	PYBPU503	PY-PU503
900W platinum PSU	94% eff.	Connector type: C13, APAC/JAPAN region only	PYBPU902	PY-PU902
900W titanium PSU	96% eff.	nom. 220-240V, max. 180-264V	PYBPU901	PY-PU901
1600W platinum PSU	94% eff.	APAC/JAPAN region only	PYBPU163	PY-PU163
1600W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V	PYBPU165	PY-PU165
2200W platinum PSU	94% eff.	Connector type: C19, APAC/JAPAN region only	PYBPU221	PY-PU221
2400W Titanium PSU	96% eff.	Connector type: C19 nom. 220-240V, max. 180-264V	PYBPU243	PY-PU243

#### DC PSU

1300W PSU DC	94% eff.	48V DC, powercode see below	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

#### Dummy module instead PSU

Dummy module for closing the 2nd PSU hole, in case only 1 PSU is equipped, max. 1x per system	PYBDMP06	-
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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
Power cord 16A IEC320 C19->C20, 3.5m for 2200W/2400W PSU	S26361-F3151-E300	S26361-F3151-L300
Power cord IEC320 C19 -> US NEMA L6-20p, 4m for 2200W/2400W PSU	S26361-F3151-E500	S26361-F3151-L500
Power cord 16A IEC320 C19->CEE 7/7, 2.5m for 2200W/2400W PSU		S26361-F3151-L100

#### Power cord option for Rack Server, Max. 1pcs. This order code isn't related PSU qty.

no power cord	T26139-Y3850-E10	
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#### Region Kits, 1x per System

Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian	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,	S26361-F1452-E101	

#### Certifications, optional 1x per system

Certification for China, (CCC), Reduced component selection possible, only with no power cord option	S26361-F3301-E120	
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**Chapter 15 - Accessories**

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

<b>USB Optical Disc Drive</b>	
External Ultra Slim Portable DVD Writer (Hitachi-LG)	<b>S26341-F103-L142</b>

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Chapter 16 - Energy Star

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

<p><b>1 CPU Variant</b></p> <p>limitations for E-Star Fam1 certification not allowed are:</p> <ul style="list-style-type: none"> <li>- 2 CPU configuration</li> <li>- CPU Xeon Bronze 3408U</li> <li>- 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)</li> </ul>	<p>limitations for E-Star Fam1 certification not allowed are:</p>
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EOL	
S26361-F3301-E532	
RX2530 Mv E-Star Fam2	
Limits configuration in accordance with Energy Star requirements for systems with 2 CPU max: 1x per system	

<p><b>2 CPU Variant</b></p> <p>limitations for E-Star Fam2 certification not allowed are:</p> <ul style="list-style-type: none"> <li>- 1 CPU configuration</li> <li>- CPU Xeon Bronze 3408U</li> <li>- 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)</li> </ul>	<p>limitations for E-Star Fam2 certification not allowed are:</p>
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PYBES22	
RX2530 Mv E-Star Fam1	
Limits configuration in accordance with Energy Star requirements for systems with 1 CPU max: 1x per system	

<p><b>1 CPU Variant</b></p> <p>limitations for E-Star Fam1 certification not allowed are:</p> <ul style="list-style-type: none"> <li>- 2 CPU configuration</li> <li>- CPU Xeon Bronze 3408U</li> <li>- CPU Xeon Silver 4410Y</li> <li>- CPU Xeon Silver 4410T</li> <li>- CPU Xeon Gold 5415+</li> <li>- CPU Xeon Gold 5416S</li> <li>- CPU Xeon Gold 6434</li> <li>- CPU Xeon Bronze 3508U</li> <li>- CPU Xeon Silver 4510</li> <li>- CPU Xeon Silver 4514Y</li> <li>- CPU Xeon Silver 4510T</li> <li>- CPU Xeon Gold 5515+</li> <li>- CPU Xeon Gold 6534</li> <li>- 900W platinum PSU</li> <li>- 1600W platinum PSU</li> <li>- 2200W platinum PSU</li> </ul>	<p>limitations for E-Star Fam1 certification not allowed are:</p>
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PYBES23	
RX2530 Mv E-Star Fam2	
Limits configuration in accordance with Energy Star requirements for systems with 2 CPU max: 1x per system	

<p><b>2 CPU Variant</b></p> <p>limitations for E-Star Fam2 certification not allowed are:</p> <ul style="list-style-type: none"> <li>- 1 CPU configuration</li> <li>- CPU Xeon Bronze 3408U</li> <li>- CPU Xeon Silver 4410Y</li> <li>- CPU Xeon Silver 4410T</li> <li>- CPU Xeon Gold 5415+</li> <li>- CPU Xeon Gold 5416S</li> <li>- CPU Xeon Gold 6434</li> <li>- CPU Xeon Bronze 3508U</li> <li>- CPU Xeon Silver 4510</li> <li>- CPU Xeon Silver 4514Y</li> <li>- CPU Xeon Silver 4510T</li> <li>- CPU Xeon Gold 5515+</li> <li>- CPU Xeon Gold 6534</li> <li>- 900W platinum PSU</li> <li>- 1600W platinum PSU</li> <li>- 2200W platinum PSU</li> </ul>	<p>limitations for E-Star Fam2 certification not allowed are:</p>
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ENERGY STAR-configurations with one CPU will be labeled: PRIMERGY RX2530 M7 E-Star Fam1  
 ENERGY STAR-configurations with two CPU will be labeled: PRIMERGY RX2530 M7 E-Star Fam2  
 non ENERGY STAR-configurations will be labeled: PRIMERGY RX2530 M7

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Chapter 17 - ErP Lot 9 restriction

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\*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	<b>S26361-F1452-E100</b>
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	<b>S26361-F1452-E130</b>

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	<b>S26361-F1452-E140</b>

Restriction for ErP Lot 9 directive,  
 Not allowed: (For all base unit)  
 - 500W platinum PSU  
 - 900W platinum PSU  
 - 1600W platinum PSU  
 - 2200W platinum PSU  
 need to select one of PYBETL22 or PYBETL23

ErP Lot9 Restriction for 16GB DIMM, 1x per System	
For all 3.5", 2.5" base unit 3.5" base unit: PYR2537R3N 2.5" base unit: PYR2537R2N, PYR2537RAN, PYR2537RCN, PYR2537RBN, <b>PYR2537RDN, PYR2537REN, PYR2537RFN</b>	
Erp Lot9 configuration 1	<b>PYBETL22</b>

ErP Lot9 Restriction for >=32GB DIMM, 1x per System	
For all 3.5", 2.5" base unit 3.5" base unit: PYR2537R3N 2.5" base unit: PYR2537R2N, PYR2537RAN, PYR2537RCN, PYR2537RBN, <b>PYR2537RDN, PYR2537REN, PYR2537RFN</b>	
ErP Lot 9 configuration 2	<b>PYBETL23</b>

Restriction for ErP Lot 9 directive,  
 (For PYR2537R3N, PYR2537R2N, PYR2537RAN, PYR2537RCN, PYR2537RBN, PYR2537RDN, PYR2537REN, PYR2537RFN)  
 Not allowed:  
 - CPU: Bronze 3408U (PYBCP65XR)  
 - CPU: Bronze 3508U (PYBCP68X1)  
 - 1G LAN  
 - NVIDIA T400 (PYBVG4T2L)

Restriction for ErP Lot 9 directive,  
 (For PYR2537R3N, PYR2537R2N, PYR2537RAN, PYR2537RCN, PYR2537RBN, PYR2537RDN, PYR2537REN, PYR2537RFN)  
 Not allowed:  
 - CPU: Bronze 3408U (PYBCP65XR)  
 - CPU: Bronze 3508U (PYBCP68X1)  
 - DIMM: 16GB DIMM (PYBME16SL/PYBME16SP)

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## Chapter 18 - Thermal Rule

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For CPU group, refer to Chapter3- CPU

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

CPU		Memory Type	Front / Rear drive bay			GPGPU NVIDIA A2/L4	Option Card		Ambient Temp.
		DDR5	4x3.5"	8x2.5"	10x2.5"		PCIe	OCP	
2CPU/1CPU configuration (with CPU and dimm dummy)	CPU A	16GB - 256GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-6	Tier1-12	35C **
	CPU B		Rear: N/A	Rear: N/A	Rear: 0				
	CPU C								
	CPU A	16GB - 256GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-7	Tier1-12	30C *
	CPU B		Rear: N/A	Rear: N/A	Rear: 0				
	CPU C						Level1-6		
CPU D									
CPU E	16GB - 256GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-7	Tier1-12	25C *special release*	
CPU D		Rear: N/A	Rear: N/A	Rear: 0					
CPU E						Level1-6	25C ***		

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

\*\* 6438Y+ CPU is not supported on 35C. Need to select Configuration Thermal Design 30°C(PYBETA1)

\*\*\* Need to select Configuration Thermal Design 25°C(PYBET21)

### 3.5"/2.5" standard base unit (including GPGPU)

CPU		Memory Type	Front / Rear drive bay			GPGPU NVIDIA A2/L4	Option Card		Ambient Temp.
		DDR5	4x3.5"	8x2.5"	10x2.5"		PCIe	OCP	
2CPU/1CPU configuration (with CPU and dimm dummy)	CPU A	16GB - 256GB	Front: 0-4	Front: 0-8	Front: 0-10	1-3	Level1-7	Tier1-10	30C *
	CPU B		Rear: N/A	Rear: N/A	Rear: 0				
	CPU C								
	CPU D								
	CPU E								25C *special release*
	CPU E	Not support							

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

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

CPU		Memory Type	Front / Rear drive bay			GPGPU NVIDIA A2/L4	Option Card		Ambient Temp.
		DDR5	4x3.5"	8x2.5"	10x2.5"		PCIe	OCP	
2CPU/1CPU configuration (with CPU and dimm dummy)	CPU A	16GB - 256GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-5	Tier1-11	30C *
	CPU B		Rear: N/A	Rear: N/A	Rear : 2				
	CPU C								
	CPU D								
	CPU E								25C *special release*
	CPU E	Not support							

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

### 3.5"/2.5" base unit (ATD40)

CPU		Memory Type	Front / Rear drive bay			GPGPU NVIDIA A2/L4	Option Card		Ambient Temp.
		DDR5	4x3.5"	8x2.5"	10x2.5"		PCIe	OCP	
2CPU/1CPU configuration (with CPU and dimm dummy)	CPU A	16GB - 128GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-5	Tier1-9	40C
	CPU B		Rear: N/A	Rear: N/A	Rear : 0				
	CPU C								
	CPU D								
	CPU E	Not support							

### 3.5"/2.5" base unit (ATD45)

CPU		Memory Type	Front / Rear drive bay			GPGPU NVIDIA A2/L4	Option Card		Ambient Temp.
		DDR5	4x3.5"	8x2.5"	10x2.5"		PCIe	OCP	
2CPU/1CPU configuration (with CPU and dimm dummy)	CPU A	16GB - 128GB	Front: 0-4	Front: 0-8	Front: 0-10	0	Level1-4	Tier1-8	45C
	CPU B		Rear: N/A	Rear: N/A	Rear : 0				
	CPU C								
	CPU D								
	CPU E	Not support							

## Option card: PCIe Level for Thermal condition

Card	Product Number	PCIe Level	
RAID/SAS	PDUAL CP100 PDUAL CP300 PRAID CP500i RAID Contr. PRAID EP520i RAID Contr. LP PRAID EP540i RAID LP PRAID EP580i RAID LP PRAID CP600i LP PRAID EP640i LP PRAID EP680i LP / NVMe LP PRAID EP680e LP PSAS CP600i LP PSAS CP600e LP PSAS CP2100-8i LP PSAS CP2200-16i LP / NVMe LP PRAID EP3252-8i LP PRAID EP3254-8i LP PRAID EP3258-16i LP / NVMe LP PRAID EP740i LP / NVMe LP	PYBDMCP24L PYBDMCP35L PYBSR3FBL S26361-F4042-E202 S26361-F4042-E214 S26361-F4042-E208 PYBSR4FAL PYBSR4C63L PYBSR4C6L / PYBSR4C62L PYBSR4C6EL PYBSC4FAL PYBSC4FAEL PYBSC3MA2L / PYBSC3MAWL PYBSC4MA1L / PYBSC4MA2L PYBSR4MA1L PYBSR4MA2L PYBSR4MA3L / PYBSR4MA4L TBD	Level4 Level5 Level3 Level4 Level4 Level4 Level3 Level3 Level3 Level3 Level3 Level4 Level4 Level4 Level4 Level4 Level3 Level3 Level4 Level4 Level4 Level4 Level4
FC	PFC EP LPe31000 1X 16GB EMULEX LP PFC EP LPe31002 2X 16GB EMULEX LP PFC EP LPe35000 1X 32GFC PCIe v4 LP PFC EP LPe35002 2X 32GFC PCIe v4 LP PFC EP LPe36000 1X 64GFC PCIe v4 LP PFC EP LPe36002 2X 64GFC PCIe v4 LP PFC EP QLE2690 1x 16Gb LP PFC EP QLE2692 2x 16Gb LP PFC EP QLE2770 1X 32GFC PCIe v4 LP PFC EP QLE2772 2X 32GFC PCIe v4 LP PFC EP QLE2870 1X 32GFC PCIe v4 LP PFC EP QLE2872 2X 32GFC PCIe v4 LP	S26361-F5596-E201 S26361-F5596-E202 PYBFC421L PYBFC422L PYBFC441L PYBFC442L S26361-F5580-E201 S26361-F5580-E202 PYBFC411L PYBFC412L PYBFC431L PYBFC432L	Level3 Level3 Level4 Level4 Level4 Level4 Level3 Level3 Level4 Level4 Level4 Level4
IB	PIB EP 200Gb 1 port HDR ConnectX-6 PIB EP 200Gb 2 port HDR ConnectX-6 1 port 200Gb infiniband NDR200 (ConnectX-7) 1 port 400Gb infiniband NDR (ConnectX-7)	S26361-F5756-E102 PYBHC402 PYBHC521 PYBHC541	Level6 Level7 Level7 Level7
LAN	PLAN CP 4x1Gbit Cu Intel I350-T4 FH LP PLAN EP E810-CQDA2 2X 100G QSFP28 LP PLAN EP E810-XXVDA2 2X 25G SFP28 LP PLAN EP E810-XXVDA4 4X 25G SFP28 LP PLAN EP MCX6-DX 100Gb 2p QSFP28 LP PLAN EP X710-DA2 2x10Gb SFP+ LP PLAN EP X710-DA4 4x10Gb SFP+ LP PLAN EP X710-T2L 2X 10GBASE-T LP PLAN EP X710-T4L 4X 10GBASE-T LP PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP PLAN EP P210P 2x10Gb SFP LP PLAN EP P210TP 2X 10GBASE-T PCIe LP PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP PLAN EP P225P 25Gb 2p SFP28 PCIe LP PLAN EP P2100G 100Gb 2p QSFP56 PCIe LP	S26361-F4610-E204 PYBLA432L PYBLA402L PYBLA404L PYBLA412L S26361-F3640-E202 S26361-F3640-E204 PYBLA342L PYBLA344L PYBLA284L PYBLA3J2L PYBLA3K2L PYBLA402L4 PYBLA3H2L PYBLA442L	Level1 Level7 Level5 Level7 Level7 Level1 Level3 Level2 Level3 Level1 Level3 Level3 Level5 Level5 Level3 Level5
GPU	NVIDIA T400 4G LP	PYBVG4T2L	Level3

## Option card: OCP Tier for Thermal condition

Card	Product Number	OCP Tier	
OCPv3	PLAN CP I350-T4 4X 1000BASE-T OCPv3 IL PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3 PLAN CP E810-XXVDA2 2x25Gb OCPv3 IL PLAN CP E810-XXVDA4 4x25Gb OCPv3 IL PLAN EP MCX6-DX 2X 100G QSFP28 OCPv3 IL PLAN EP X710-DA2 2X 10G SFP+ OCPv3 IL PLAN EP X710-DA4 4X 10G SFP+ OCPv3 IL PLAN EP X710-T2L 2X 10GBASE-T OCPv3 IL PLAN EP X710-T4L 4X 10GBASE-T OCPv3 IL PLAN CP N41T 4X 1000BASE-T OCPV3 IL PLAN EP N210P 2X 10G SFP+ OCPV3 IL PLAN EP N210TP 2X 10GBASE-T OCPV3 IL PLAN EP MCX6-LX 25Gb 2p SFP28 OCPV3 IL PLAN EP N225PI 25Gb 2p SFP28 OCPv3 PLAN EP N2100GI 100Gb 2p QSFP56 OCPv3	PYBLA274U2 PYBLA432U2 PYBLA402U2 PYBLA404U2 PYBLA412U2 PYBLA352U2 PYBLA354U2 PYBLA342U2 PYBLA344U2 PYBLA284U2 PYBLA3J2U2 PYBLA3K2U2 PYBLA402U5 PYBLA3G2U2 PYBLA452U2	Tier1 Tier11 Tier8 Tier11 Tier12 Tier2 Tier8 Tier8 Tier2 Tier4 Tier2 Tier2 Tier5 Tier6 Tier3 Tier8

## Option card: GPGPU

Card	Product Number
GPGPU	NVIDIA L4 LP (T4 successor) , 70W NVIDIA A2 LP (T4 successor) , 40-60W

Chapter 19 - others

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<b>PYBRMC44</b> <b>PY-RMC44</b>
iRMC advanced pack
Integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

<b>PYBLCM14</b> <b>embedded Lifecycle Management (eLCM)</b>
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)
<b>PY-LCM14</b>
<b>options contains:</b>
- Paper with TAN for Licensekey

will be available in CQ24

iRMC MicroSD card option			
Capacity	Interface	E-parts	L-parts
64GB	SDXC	PYBMD64R1	PY-MD64R1
128GB	SDXC	PYBMD12R1	PY-MD12R1
max. 1x per system, instead of 16GB MicroSD card			

<b>PYBSSS3</b>
iRMC standard/legacy Option
When this product is ordered, following iRMC default setting is changed.
Unique default password: No. The fixed password is printed on ID tag.
SSH: Enabled
USB Host LAN : Enabled
Force to change default pwd to use Redfish/RESTful/other interfaces: No
max. 1x per system

Advanced Thermal design 45°C cannot be combined with the Flash backup unit of the RAID controllers

<b>S26361-F3776-E440</b>
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

<b>S26361-F3776-E445</b>
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

<b>PYBETA1</b>
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.
<b>Refer to Chapter18-Thermal Rule</b>
this setting can be activated ex factory only
max. 1x per system

<b>PYBET21</b>
Configuration Thermal Design 25°C(CTD25)
Sets the PRIMERGY server to support temperatures of up to 25 ° C in operating mode for the configuration with thermal restriction.
<b>Refer to Chapter18-Thermal Rule</b>
this setting can be activated ex factory only
max. 1x per system

\*special release

**TPM module must not order for China region.** **When CPU 5th generation ordered, the orderable are PYBTPM20, PY-TPM20 and PYBNTPM only**

will be replaced to TPM20 in April 2024

will be available in April 2024

<b>PYBTPM14</b> <b>PY-TPM14</b>
TPM 2.0 Module SP1
required for Microsoft Windows Server 2022 (host OS)
max. 1x per system

<b>PYBTPM20</b> <b>PY-TPM20</b>
TPM 2.0 Module V2
required for Microsoft Windows Server 2022 (host OS)
max. 1x per system

<b>PYBNTPM</b>
No TPM for WINSVR
Either PYBTPM14 or PYBNTPM is required in ordering
Windows Server 2022 OEM
max. 1x per system

When Windows Server 2022 is used as a host OS, PYBTPM14, PY-TPM14, PYBTPM20 or PY-TPM20 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.

PYBTPM14/PY-TPM14 are currently available when will be replaced to PYBTPM20/PY-TPM20 will be available in April 2024 because new TPM supports mandatory to fit to new Windows requirement New TPM are backward compatible with former TPMs.

OS support matrix:

Operating system for host OS	PYBTPM14 PY-TPM14	PYBTPM20 PY-TPM20
Windows Server 2022	required	required
Windows Server 2019	supported	supported
Windows Server 2016	supported	-
Red Hat Enterprise Linux 8	supported	supported
Red Hat Enterprise Linux 7	supported	supported
SUSE Linux Enterprise Server 15	-	-
VMware ESXi 7.0	supported	supported
VMware ESXi 6.7	supported	-

<b>PYBCOM10</b> <b>PY-COM10</b>
serial port (RS232)
serial port (RS232) mounted on a low profile PCIe slot
max. 1x per system

<b>PYBFOP19</b> <b>PY-FOP19</b>
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
25.04.2024	1,109	HDD_SSD, HDD_SSD(short depth)	updated availability schedule	Y. Sugiyama
24.04.2024	1,108	LAN_FC_IB	Delete available date of PYxLA3K2U2 and PYxLA3J2U2 because they are released	F. Kanega
23.04.2024	1,107	base	update schedule for RMK	J.Zhao
16.04.2024	1,106	GFX	Update the limitation for GPU.	M.Takaoka
09.04.2024	1,105	PSU	update the note for no power cord	J.Zhao
09.04.2024	1,105	Thermal rule	Delete smart nic because they are canceled.	J.Zhao
05.04.2024	1,104	LAN_FC_IB	Delete smart nic because they are canceled.	F. Kanega
05.04.2024	1.103	LAN_FC_IB	Update InfiniBand limitation for adding the ether card	M.Takaoka
04.04.2024	1.102	ErP Lot9	removed PYR2537RGN from PYBETL22/PYBETL23	S. Fujita
04.04.2024	1.102	base	removed PYR2537RGN due to cancel project	S. Fujita
29.03.2024	1.101	CPU_5th_gen	added remark **	S. Fujita
27.03.2024	1,99	HDD_SSD, HDD_SSD(short depth)	updated availability schedule	Y. Sugiyama
25.03.2024	1,98	base	revised available date for PYR2537RGN	S. Fujita
25.03.2024	1.97	others	revised the description about iRMC MicroSD card option for eLCM	Y. Sugiyama
22.03.2024	1.96	others	changed comments for TPM	KonnoH
15.03.2024	1.95	base, RAID	updated availability schedule for PRAID CP600i	T. Sudou
13.03.2024	1,94	LAN_FC_IB	update available date for P2100G	J.Zhao
12.03.2024	1,93	LAN_FC_IB	Adding Broadcom 10G OCPv3, N210P and N210TP IL	F. Kanega
08.03.2024	1,92	others	added the restriction for TPM	KonnoH
01.03.2024	1,91	HDD_SSD, HDD_SSD(short depth)	added the restriction for SSD SATA PM893a/PM897a updated availability schedule	Y. Sugiyama
29.02.2024	1,90	CPU	Added 5th gen CPU	J.Zhao
29.02.2024	1,90	RAM	Added 5600MHz	J.Zhao
29.02.2024	1,90	Lot9/Energy Star	restriction updated	J.Zhao
27.02.2024	1,89	base	added base unit[PYR2537RGN] in PYBETL22/PYBETL23	S. Fujita
27.02.2024	1,89	Lot9	added base unit[PYR2537RGN] including Bluefield2.	S. Fujita
21.02.2024	1.88	HDD_SSD, HDD_SSD(short depth)	removed the limitation about VMD/VROC for Kioxia CM7 updated availability schedule	Y. Sugiyama
16.02.2024	1.87	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
14.02.2024	1,86	CPU, RAM	Add CPU type for MCC, XCC, HBM Add the restriction for 96GB memory	KonnoH
08.02.2024	1.85	base, RAID, HDD_SSD, HDD_SSD (short depth)	released PSAS CP 2200-16i and PDUAL CP300 updated availability schedule	T. Sudou
07.02.2024	1,84	LAN_FC_IB, Thermal	Add note to SmartNIC and update Thermal rule	J.Zhao
05.02.2024	1,83	LAN_FC_IB	MCX6-LX 25G OCPv3, PCIe, P225P, P2100G released.	F. Kanega
22.01.2024	1,82	base	Add comment for S26361-F1647-E302	Y. Kanai
16.01.2024	1.81	HDD_SSD	removed availability schedule for PCIe-SSD "kioxia CM7"	J.Zhao
10.01.2024	1.80	others	Added '45°C' into 'Advanced Thermal design 45°C cannot be combined with the Flash backup unit of the RAID controllers'	J.Zhao
10.01.2024	1.79	RAID	added PYR2537RDN to PSAS CP 2100-8i LP for vSAN	T. Sudou
09.01.2024	1,78	LAN_FC_IB	Add BF2	F. Kanega
26.12.2023	1,77	HDD_SSD HDD_SSD (short depth)	removed the restriction for SSD SAS "Kioxia PM7" added the restriction for SSD PCIe "Kioxia CM7" removed 20TB FIPS updated availability schedule	Y. Sugiyama
21.12.2023	1.76	HDD_SSD, HDD_SSD (short depth), Thermal Rule	updated PDUAL CP300	T. Sudou
20.12.2023	1,75	LAN_FC_IB	Change available date of N225PI and N2100GI to CY20243Q(End of June or later)	F. Kanega
18.12.2023	1,74	base	revised Interfaces internal	J. ZHAO
11.12.2023	1.73	base, RAID, HDD_SSD, HDD_SSD (short depth)	updated availability schedule	T. Sudou
30.11.2023	1,72	Description	eLCM is added to recommended components	J. ZHAO
29.11.2023	1,71	ErP Lot9	Change Lot9 restriction (PYBETL23) Restriction for 3.5" base unit with 1CPU conf removed.	A. Iwata
16.11.2023	1,7	LAN_FC_IB	Change available date of MCX6-LX and Broadcom 25/100G cards. Delete available date of QLE287x because they are shipping now.	F. Kanega
13.11.2023	1.69	Other (iRMC)	Add "iRMC standard/legacy Option" PYBSS3 in others sheet.	H. Ogino
10.11.2023	1.68	base	updated availability schedule for RAID	T. Sudou
01.11.2023	1.67	HDD_SSD	added the restriction about HBA/RAID for Kioxia PM7 updated availability schedules	Y. Sugiyama
26.10.2023	1.66	RAM	Removed DDR5 5600 memory without 96GB	H. Konno



25.10.2023	1.65	HDD_SSD, HDD_SSD (short depth)	updated the description about max qty for M.2 SATA/PCIe drives. Updated availability schedule for HDD_SSD(short depth)	Y. Sugiyama J. ZHAO
24.10.2023	1.64	Description	Removed 'Region kit APAC/EMEA/India'	S. Fujita
24.10.2023	1.63	RAM	Added DDR5 5600 memory	H. Konno
18.10.2023	1.62	RAID	updated Note for Intel VROC (SATA RAID)	T. Sudou
13.10.2023	1.61	HDD_SSD, HDD_SSD (short depth)	updated availability schedule	T. Sudou
13.10.2023	1.61	RAID	released Intel VROC (VMD NVMe RAID)	T. Sudou
13.10.2023	1.60	HDD_SSD, HDD_SSD (short depth)	updated the EOL information for PCIe-SSD	Y. Sugiyama
12.10.2023	1.59	RAM	Modified required memory qty condition for HBM Cache Mode	A. Iwata
12.10.2023	1.58	-	change font from 'Fujitsu Sans' to 'Arial'	J. ZHAO
04.10.2023	1.57	LAN_FC_IB	Add I350-T2 PCIe card	F. Kanega
03.10.2023	1.56	RAM	Remove HBM Cache+Mirroring Mode because Intel will not support this mode	J. ZHAO
02.10.2023	1.55	others	Add new TPM	H. Konno
02.10.2023	1.54	RAID	released Intel VROC (SATA RAID)	T. Sudou
26.09.2023	1.53	RAM	Update schedule for HBM Cache+Mirroring Mode	J. ZHAO
22.09.2023	1.52	RAID, HDD_SSD, HDD_SSD (short depth)	added the limitation about VROC for PCIe-SSD	Y. Sugiyama
22.09.2023	1.51	RAID, HDD_SSD, HDD_SSD (short depth)	updated availability schedule	T. Sudou Y. Sugiyama
20.09.2023	1.50	HDD_SSD, HDD_SSD (short depth)	updated the description about hot plug for PCIe-SSD	Y. Sugiyama
20.09.2023	1.49	Energy Star	update ES 4.0	J. ZHAO
20.09.2023	1.48	HDD_SSD, HDD_SSD (short depth)	updated availability schedule added the following drives as new products -Samsung PM1653 as SSD SAS 2.5"/3.5" -Samsung PM897a/PM893a as SSD SATA 2.5"/3.5"	Y. Sugiyama
15.09.2023	1.47	LAN_FC_IB	X710-T4L OCPv3 released. QLE277x released. Change available date of QE287x from 3Q to Oct.	F.Kanega
13.09.2023	1.46	HDD_SSD, HDD_SSD (short depth)	added RAID PRESET option S26361-F5659-E13	T. Sudou
08.09.2023	1.45	HDD_SSD / HDD_SSD(short depth)	added the EOL status for HDD SAS 15K and HDD 2.5" BC-SATA/SAS	Y. Sugiyama
04.09.2023	1.44	HDD_SSD / HDD_SSD(short depth)	updated availability schedules for SSD SAS "PM7"	Y. Sugiyama
01.09.2023	1.43	Energy Star	update ES 4.0 PN	J. ZHAO
24.08.2023	1.42	Thermal Rule	Adding information of MCX6-LX 25G, P(N)225P, P(N)2100G cards.(NVIDIA 25G and Broadcom 25/100G)	F.Kanega
08.08.2023	1.41	base, RAID	updated availability schedule	T. Sudou
07.08.2023	1.40	Energy Star base/thermal rule	Add ES 4.0 6438Y+ CPU can be supported on 35C°	J. ZHAO
03.08.2023	1.39	HDD_SSD (short depth)	revised max number for PCIe-SSD "Kioxia CM7"	J. ZHAO
02.08.2023	1.38	HDD_SSD, HDD_SSD (short depth)	added PDUAL CP300 PYBDMCP35L, PY-DMCP35	T. Sudou
01.08.2023	1.37	CPU	Add Xeon Gold 6434	J. ZHAO
31.07.2023	1.36	HDD_SSD / HDD_SSD(short depth)	revised the order codes for Kioxia CM7 15.36TB	Y.Sugiyama
31.07.2023	1.35	HDD_SSD / HDD_SSD(short depth)	added the PCIe-SSD "Kioxia CM7 series" updated availability schedule for SED drives	Y.Sugiyama
25.07.2023	1.34	Base	Add base unit Type 3-20	J. ZHAO
24.07.2023	1.33	RAID	Add "PRAID CP500i / PRAID EP520i / PRAID EP540i / PRAID EP580i" to PY-CBS106 and PY-CBS113	J. ZHAO
19.07.2023	1.32	LAN_FC_IB	Adding Broadcom 25/100G cards. Adding NVIDIA 25G cards. Updating the information of whole LAN/FC page	F. Kanega
04.07.2023	1.31	HDD_SSD(short depth)	added to support the HDD SAS 10K 512n 600GB Non-SED, and added the support plan about 300GB SED. Removed the HDD SAS 10K 512e and HDD SAS 7.2K 512e due to RV issue (there is a possibility to add the SAS 10K 1.8TB according the re-test result)	Y.Sugiyama
11.07.2023	1.30	base, RAID	cancelled PSAS CP 2200-16i NVMe, PRAID EP 3258-16i NVMe	T. Sudou
04.07.2023	1.29	HDD_SSD(short depth)	Max number revised	J. ZHAO
04.07.2023	1.29	RAM	Add memory Mode for HBM CPUs	J. ZHAO
30.06.2023	1.28	others	No TPM for WINSVR added	K. Nishihara
28.06.2023	1.27	HDD_SSD(short depth)	Added the new sheet "HDD_SSD(short depth) for the short depth model"	Y.Sugiyama

23.06.2023	1.26	PSU	Added the restriction of ATD40/45 to 500W PSU	J.Sugiyama
22.06.2023	1.25	Thermal Rule	changed level for PRAID CP500i, EP520i, EP540i, EP580i level according to updated information	J. ZHAO
21.06.2023	1.24	RAID, Thermal Rule	added PSAS CP 2100-8i for vSAN PYBSC3MAWL	T. Sudou
13.06.2023	1,23	RAM	add Memory less Mode option	J. ZHAO
13.06.2023	1,23	GFX	add L4LP card and updated availability schedules	M.Takaoka
09.06.2023	1,22	LAN_FC_IB	Change target date of X710-T4L OCPv3 from 2Q to 3Q	F. Kanega
07.06.2023	1.21	GFX	The released plan for L4 was deleted.	M.Takaoka
06.06.2023	1.20	base, RAID	added Intel VROC (SATA RAID) added Intel VROC Upgrade Key	T. Sudou
06.06.2023	1.19	Thermal Rule LAN_FC_IB	Revised "PFC EP LPe36000/36002 2X 32GFC PCIe v4 LP" to "PFC EP LPe36000/36002 2X 64GFC PCIe v4 LP"	J. ZHAO
05.06.2023	1.18	RAID	Revised notes for FBU regarding short depth models	J. ZHAO
02.06.2023	1.17	HDD_SSD	updated availability schedule	Y. Sugiyama
01.06.2023	1.16	base RAID	changed slot 1 -> slot 2 for short delth models due to thermal test result Add the comments "1x FBU can be integrated per short depth base units"	Y. Narita
31.05.2023	1.15	base	removed the notes in Type 3-10 with CP2100-8i "To be updated" is removed.	Y. Narita
22.05.2023	1.14	HDD_SSD	removed the BC-SATA 20TB due to release cancel	Y. Sugiyama
16.05.2023	1.13	RAM	revised mistake on population of "12 DIMMs for 1CPU"	J. ZHAO
11.05.2023	1.12	Thermal Rule	added PRAID CP500i, EP520i, EP540i, EP580i to PCIe card thermal rule table.	J.Sugiyama
10.05.2023	1.11	CPU	updated MCC CPU availability. (remove "will be available in 2Q.2023") updated HBM CPU/8470N availability. (add "will be available in 3Q.2023") removed HBM 9460/9470 CPU due to available for liquid cooling solution as special release	A. Iwata
09.05.2023	1.10	base, RAID	added PRAID CP500i, EP520i, EP540i, EP580i updated availability schedule	T. Sudou
26.04.2023	1.09	RAID	updated availability schedules	T. Sudou
26.04.2023	1.09	base	updated availability schedule for EP 3258-16i in Type 3-8	T. Sudou
21.04.2023	1.08	HDD_SSD	revised the max qty from 2x to 1x for M.2 SATA/M.2 PCIe. (when VROC is available, the max qty will be updated)	Y. Sugiyama
18.04.2023	1.07	RAID	updated availability schedules	T. Sudou
18.04.2023	1.06	base	added RMK for short depth model	Y. Narita
13.04.2023	1.05	HDD_SSD	added the HDD SAS 15K and 10K excluding 2.4TB	Y. Sugiyama
11.04.2023	1.04	Thermal Rule	relaxed the restriction for CPU E due to update by R&D team	Y. Narita
06.04.2023	1.03	base	added order codes of CMA for short depth models	Y. Narita
04.04.2023	1.02	Cover/RAM RAID	corrected some wrong description added order codes of RAID cables for short depth models	Y. Narita
03.04.2023	1.01	HDD_SSD	added the description "available in CQ3 '23" for all SED drives due to dropping from 1st T50.	Y. Sugiyama
03.04.2023	1,0		1st release	Y. Narita