PRIMERGY RX2540 M7
2U Rack Server

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 RX2540 M7
2		describes rack mount kits and services
3	CPU	Order code and Infos of Intel® Xeon® Processor Scalable Family CPUs
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	Drive cage and PCIe riser options
7	RAID	SAS / RAID Controller and components
8	ODD	optical disk drives (DVD, DVD-rw, Blu ray)
9	Backup	LTO drives & RDX drive
10	HD_SSD	Storage drives - PCIe SSD - SAS/SATA SSD & HDD
11	LAN_FC_IB	LAN Components
12		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 limitation
17	Erp Lot9	Erp Lot9 limitation
18	Thermal Rule	Thermal Rule
19	others	System Management, ATD, CTD, 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 prerequesites, technical back ground, configuration rules, limitations, …

Conventional order code

S26361-F4610-E2	<-- order code E-part (bold) --
S26361-F4610-L3	<-- order code L-part (bold)
PLAN 2x1Gb Ethern. Controller	<-- "name" of this part
i350-T2 chip (based on Intel Powerville) offers 2x1Gb RJ45 connectors	<--description of this part, in same cases as well description of content
PCIe Gen2 x4 full height card	<--requires a free PCIe slot --> means total amount of PCIe slots reduced
max. 6x per system	<--indicates how often this part can be configured in the related Server

New order code

PYBVAP05	<-- "PYB" order code (bold) for BTO(Built to Order) part
PY-VAP05	<-- "PY-" order code (bold) for Loose delivery part
Front VGA connector (15-pin)	<-- "name" of this part
Front VGA connector (15-pin) including cable and front connector	<--description of this part, in same cases as well description of content
Not for 12x3.5", 24x2.5", 64xEDSFF base unit.	<-- Limitation for this part
max. 1x per system	<--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-RX2540M7.pdf

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

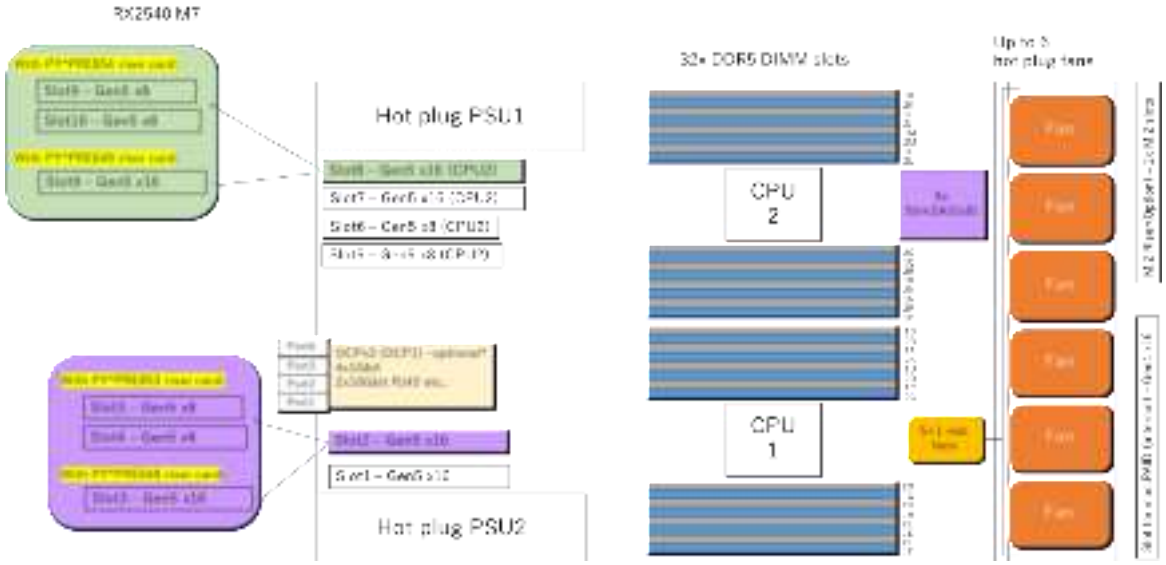
https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx
(extranet)

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

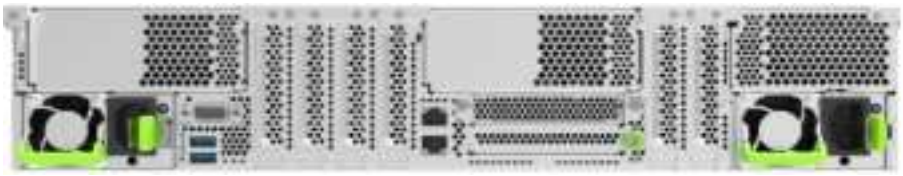
SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6GBit/s; SAS3.0 = 12GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage 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-**E**240" ordercode with "E" means it is either integrated into to Server (CPU, Mem, ..) or integrated in the shipping box (Keyboard, Mouse, ..)
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234-**L**240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

PRIMERGY RX2540 M7 schematics of the System board



*For the available options, please see the “Chapter 11”.

PRIMERGY RX2540 M7 rear view with 2x PSU, 6x PCIe Slots and OCPv3



PRIMERGY RX2540 M7 front view with drives and operation panel

3.5-inch hot plug SAS/SATA

10x HDDs/SSDs

12x HDDs/SSDs

2.5-inch hot plug SAS/SATA/NVMe

16x HDDs/SSDs

24x HDDs/SSDs

recommended components for RX2540 M7	#
Independant Mode installation	1x
PLAN CP I350-T4 4X 1000BASE-T OCPv3	1x
Region kit APAC/EMEA/India	1x
iRMC advanced pack	1x
Modular PSU 900W Titanium hot plug	2x

Chapter 1 - base unit

Start

Power supply units & cooling
The PRIMERGY RX2540 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 RX2540 M7 comes equipped with ultimate performance processor heat pipes and 6 high performance hot plug fans (N+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 D3983-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)
Slots: per default, 7 PCIe slots are on board - please see schematics in "Description"
> 2 PCIe slots low profile, 198 mm 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
> 4 PCIe slot low profile, 198 mm length @ second CPU:
Slot 5 PCIe-Gen5 x8
Slot 6 PCIe-Gen5 x8
Slot 7 PCIe-Gen5 x16
Slot 8 PCIe-Gen5 x16
Maximum 8 PCI slots are possible with PCIe riser card options (4x full height, please see below)
System RAM up to DDR5-4800 MHz
8TB memory with 32x DDR5 RDIMMs (16 per CPU)
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 option**

Connectivity

Interfaces at rear side	Interfaces at front
- 1 service LAN RJ45 (1 Gbit)	- 2x USB 3.0 on COP(Common Operation Panel)
- 1x RJ45 with integrated LEDs for fixed onboard 1Gb LAN	- for base units with less HDD: front VGA option
- 1x VGA (15 pins)	
- 2x USB 3.0 UHCI	Interfaces internal
- 1x serial 16550 interface	- 2x USB 3.0
- Slot for interface OCPv3 cards up to 4 LAN ports	- 2x M.2
	- 2x 4* SATA 6G

Rack version for 19" racks with 2 height units
No PSU included in base unit

Basic unit is without CPU and Memory
For an orderable basic unit first CPU and
one memory = first memory has to be selected

Basic units LFF with

10x 3.5" bays **PYR2547R3N**

Without SAS expander
No Rear Bay option possible!

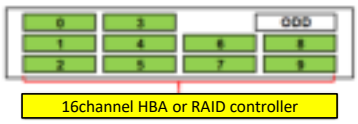
[Themal Restriction]
Refer to Thermal Rule

Front
Type 1-1: Onboard SATA
Type 1-2: PRAID CP500i / CP600i * / EP520i / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot)

*: will be available in 2024/03

No Rear Bay option

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**



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

*: will be available in 2024/07
**: will be available in 2024/03

No Rear Bay option

! Cable Kit for 16ch RAID/HBA controller **PYBCBS104**

Please select one of " ! " options with PYR2547R3N, according to your configuration.

12x 3.5" bays **PYR2547RAN**

Including SAS expander
4x rear SFF option
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]
Refer to Thermal Rule

Front
Type 2-5: PRAID CP500i ** / CP600i * / EP520i ** / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot)

*: will be available in 2024/03
**: will be available in 2023/12

Rear Bay option

Type 2-6: 4x, 2x SAS/SATA:
Same controller as Front via Expander

Type 2-7: 4x, 2x NVMe: Max 2x Separate Retimer
(in PCIe slot 8, 2)
2nd CPU is required for Rear NVMe bay

Type 2-8: 4x NVMe:
Separate PRAID EP680i **NVMe** / EP740i **NVMe** * or
PSAS CP 2200-16i **NVMe** ** or
PRAID EP 3258-16i **NVMe** *** (in PCIe slot 6)
2nd CPU is required for Rear NVMe bay

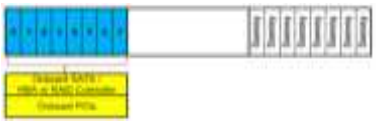
*: will be available in 2024/07
**: will be available in 2024/03
***: will be available in 2023/10

Basic units SFF with		Upgrade kit for Front bays
16x 2.5" bays w/o expander	**PYR2547R2N**	**(Default Configuration)**
Without SAS expander 4x rear SFF option		**Front** **Type 3-1:** Onboard SATA
[Themal Restriction] Refer to Thermal Rule		**Rear Bay option**
		! Cable kit for Onboard SATA **PYBCBT013**
		Type 3-5: 4x NVMe: Separate PRAID EP680i **NVMe** / EP740i **NVMe** * or PSAS CP 2200-16i **NVMe** ** or PRAID EP 3258-16i **NVMe** *** (in PCIe slot 6) 2nd CPU is required for Rear NVMe bay *: will be available in 2024/07 **: will be available in 2024/03 ***: will be available in 2023/10
		Front **Type 3-2:** PRAID CP500i / CP600i * / EP520i / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot) *: will be available in 2024/03
		! Cable kit for 8ch RAID/HBA controller **PYBCBS103**
		Front **Type 3-3:** PSAS CP600i or PRAID EP540i / EP580i / EP680i / EP740i * or PSAS CP 2200-16i ** or PRAID EP 3258-16i (in internal RAID slot) *: will be available in 2024/07 **: will be available in 2024/03
		16channel HBA or RAID controller **! Cable Kit for 16ch RAID/HBA controller** **PYBCBS104**
		Rear Bay option
		Type 3-9: 4x NVMe: Separate PRAID EP680i **NVMe** / EP740i **NVMe** * or PSAS CP 2200-16i **NVMe** ** or PRAID EP 3258-16i **NVMe** *** (in PCIe slot 6) 2nd CPU is required for Rear NVMe bay *: will be available in 2024/07 **: will be available in 2024/03 ***: will be available in 2023/10
		! Upgrade kit for dual RAID SAS/SATA HDD/SSD **PYBCBS092**
		Front **Type 3-4:** 2x PRAID CP500i / CP600i * / EP520i / EP640i or 2x PSAS CP 2100-8i or 2x PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot, PCIe slot 1) No mixed cards *: will be available in 2024/03
		Please select one of " ! " options with PYR2547R2N, according to your configuration.
16x 2.5" bays w/ expander	**PYR2547RBN**	Upgrade kit for Front bays
Including SAS expander		**(Default Configuration)**
[Themal Restriction] Refer to Thermal Rule		**Front** **Type 3-11:** PRAID CP500i ** / CP600i * / EP520i ** / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot) *: will be available in 2024/03 **: will be available in 2023/12

8x 2.5" SAS/SATA/NVMe mixed + 8x NVMe **PYR2547RCN (Default Configuration)**

Without SAS expander

[Themal Restriction]
Refer to Thermal Rule



Front 8x2.5" SAS/SATA/NVMe mixed

Type 6-1: Onboard SATA + Onboard PCIe
Type 6-2: PRAID CP500i / CP600i * / EP520i / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in PCIe slot 1) + Onboard PCIe

*: will be available in 2024/03

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PYR2547RCN, according to your configuration.

Upgrade kit 8x NVMe **PYBBA28P8**

Front 8x2.5" SAS/SATA/NVMe mixed + 8x NVMe

Type 6-8: Onboard SATA, Onboard PCIe
Type 6-9: PRAID CP500i / CP600i * / EP520i / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in PCIe slot 1), Onboard PCIe

2nd CPU is required *: will be available in 2024/03

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PYR2547RCN and PYBBA28P8, according to your configuration.

8x 2.5" SAS/SATA + 4x NVMe **PYR2547RDN (Default Configuration)**

Without SAS expander

[Themal Restriction]
Refer to Thermal Rule

Front 8x2.5" SAS/SATA + 4x NVMe

Type 6-4: Onboard SATA, PRAID EP680i **NVMe** / EP740i **NVMe** * or PSAS CP 2200-16i **NVMe** ** or PRAID EP 3258-16i **NVMe** *** (in PCIe slot 1)
Type 6-5: PRAID CP500i / CP600i ** / EP520i / EP640i or ~~PSAS CP 2100-8i or~~ PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot), PRAID EP680i **NVMe** / EP740i **NVMe** * or PSAS CP 2200-16i **NVMe** ** or PRAID EP 3258-16i **NVMe** *** (in PCIe slot 1)

*: will be available in 2024/07
**: will be available in 2024/03
***: will be available in 2023/10

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PYR2547RDN, according to your configuration.

Upgrade kit 4x NVMe **PYBBA24PN**

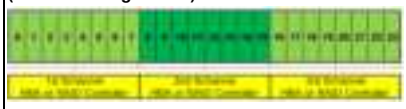
Front 8x2.5" SAS/SATA + 8x NVMe

Type 6-6: Onboard SATA, 2x PRAID EP680i **NVMe** / EP740i **NVMe** * or 2x PSAS CP 2200-16i **NVMe** ** or 2x PRAID EP 3258-16i **NVMe** *** (in PCIe slot 1, 6)
Type 6-7: PRAID CP500i / CP600i ** / EP520i / EP640i or ~~PSAS CP 2100-8i or~~ PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot), 2x PRAID EP680i **NVMe** / EP740i **NVMe** * or 2x PSAS CP 2200-16i **NVMe** ** or 2x PRAID EP 3258-16i **NVMe** *** (in PCIe slot 1, 6)

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

No mixed 1st and 2nd NVMe carc *: will be available in 2024/07
2nd CPU is required **: will be available in 2024/03
***: will be available in 2023/10

Please select one of " ! " options with PYR2547RDN and PYBBA24PN, according to your configuration.

24x 2.5" bays	**PYR2547REN**	Upgrade kit for Front bays
Without SAS expander 4x rear SFF option 2x rear SFF option (required 4x rear SFF option) [Themal Restriction] Refer to Thermal Rule		**(Default Configuration)**  **Front** **Type 4-1:** 3x PRAID CP500i / CP600i * / EP520i / EP640i or 3x PSAS CP 2100-8i or 3x PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot, PCIe slot 1, 5) No mixed cards 2nd CPU is required *: will be available in 2024/03 **! Cable kit for 8ch RAID/HBA controller** **PYBCBS103** **No Rear Bay option**  **Front** **Type 4-2:** 2x PSAS CP600i or 2x PRAID EP540i / EP580i / EP680i / EP740i * or 2x PSAS CP 2200-16i ** or 2x PRAID EP 3258-16i (in internal RAID slot, PCIe slot 6) No mixed cards 2nd CPU is required *: will be available in 2024/07 **: will be available in 2024/03 **! Cable kit for 16ch RAID/HBA controller** **PYBCBS104** **Rear Bay Option**  **Type 4-3:** 4x, 2x SAS/SATA: Same controller as Front (2nd card)  **Type 4-4:** 4x, 2x NVMe: Max 2x Separate Retimer (in PCIe slot 8, 2) 2nd CPU is required for Rear NVMe bay **Please select one of " ! " options with PYR2547REN, according to your configuration.**
24x 2.5" bays high performance RAID Without SAS expander [Themal Restriction] Refer to Thermal Rule **Will be relelased in 2024.7**	**PYR2547RFN**	 **Front** **Type 4-20:** PRAID EP781i FH * (in PCIe slot 3), Onboard PCIe Full Hight PCIe(x16) Riser right is required **2nd CPU is required** *: will be available in 2024/07

24x 2.5" bays Including SAS Expander 4x rear SFF option 2x rear SFF option (required 4x rear SFF option) [Themal Restriction] Refer to Thermal Rule	**PYR2547RGN**	Upgrade kit for Front bays **(Default Configuration)**  **Front** **Type 4-12:** PRAID CP500i ** / CP600i * / EP520i ** / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot) *: will be available in 2024/03 **: will be available in 2023/12 **Rear Bay option** **! Cable kit for 8ch RAID/HBA controller** **PYBCBS103**  **Type 4-13:** 4x, 2x SAS/SATA: Same controller as Front via expander  **Type 4-16:** 4x, 2x NVMe: Max 2x Separate Retimer (in PCIe slot 8, 2) 2nd CPU is required for Rear NVMe bay  **Front** **Type 4-12:** PSAS CP600i or PRAID EP540i *** / EP580i *** / EP680i / EP740i * or PSAS CP 2200-16i ** or PRAID EP 3258-16i (in internal RAID slot) *: will be available in 2024/07 **: will be available in 2024/03 ***: will be available in 2023/12 **Rear Bay option** **! Cable kit for 16ch RAID/HBA controller** **PYBCBS104**  **Type 4-13:** 4x, 2x SAS/SATA: Same controller(EP5x0i) as Front via expander **Type 4-15:** 4x, 2x SAS/SATA: Same controller(except for EP5x0i) as Front **Please select one of " ! " options with PYR2547RGN, according to your configuration.**
24x 2.5" NVMe bays Onboard PCIe with switch board 4x rear SFF option 2x rear SFF option (required 4x rear SFF option) [Themal Restriction] Refer to Thermal Rule	**PYR2547RHN**	Upgrade kit for Front bays **(Default Configuration)**  **Front** **Type 5-1:** Front NVMe: Onboard PCIe via PCIe SW 2nd CPU is required **Rear Bay option**  **Type 5-2:** 4x, 2x SAS/SATA: Separate PRAID CP500i / CP600i * / EP520i / EP640i or PSAS CP 2100-8i or PRAID EP 3252-8i / EP 3254-8i (in PCIe slot 6) *: will be available in 2024/03  **Type 5-3:** 4x, 2x NVMe: Max 2x Separate Retimer (in PCIe slot 8, 2)

Basic units for best graphics applications

16x 2.5" bays w/ expander for graphics **PYR2547RJN**

Including SAS expander
Including GFX/GPU Mounting Kit right for 1st GPU card

[Themal Restriction]
Refer to Thermal Rule

Front

Type 3-11: PRAID CP500i ** / CP600i * / EP520i ** / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot)

*: will be available in 2024/03
**: will be available in 2023/12

8x 2.5" SAS/SATA/NVMe mixed for graphics **PYR2547RKN** **(Default Configuration)**

Without SAS expander
Including GFX/GPU Mounting Kit right for 1st GPU card

[Themal Restriction]
Refer to Thermal Rule

Front 8x2.5" SAS/SATA/NVMe mixed

Type 6-1: Onboard SATA + Onboard PCIe
Type 6-2: PRAID CP500i / CP600i * / EP520i / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (**in PCIe slot 1**)
+ Onboard PCIe

*: will be available in 2024/03

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PYR2547RKN, according to your configuration.

Upgrade kit 8x NVMe **PYBBA28P8**

Front 8x2.5" SAS/SATA/NVMe mixed + 8x NVMe

Type 6-8: Onboard SATA, Onboard PCIe
Type 6-9: PRAID CP500i / CP600i * / EP520i / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (**in PCIe slot 1**),
Onboard PCIe

2nd CPU is required

*: will be available in 2024/03

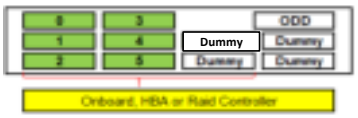
! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PYR2547RKN and PYBBA28P8, according to your configuration.

6x 3.5" bays for graphics **PYR2547RLN**

Without SAS expander
Including GFX/GPU Mounting Kit right for 1st GPU card

[Themal Restriction]
Refer to Thermal Rule



Front

Type 1-1: Onboard SATA
Type 1-2: PRAID CP500i / CP600i * / EP520i / EP640i or
PSAS CP 2100-8i or
PRAID EP 3252-8i / EP 3254-8i (in internal RAID slot)

*: will be available in 2024/03

! Cable kit for Onboard SATA **PYBCBT013**
! Cable kit for 8ch RAID/HBA controller **PYBCBS103**

Please select one of " ! " options with PPYR2547RLN, according to your configuration.

Standrad Rear
Default

No possible together with right/left side riser.

Upgrade kit of Rear 4x 2.5" bays for SAS/SATA HDD/SSD
PYBBA24SE
max 1x for system
Base Unit: PYR2547RAN PYR2547REN PYR2547RGN PYR2547RHN Thermal restriction: refer to Thermal Rule
Includes all necessary cage, backplane and cables

Upgrade kit of Rear 4x 2.5" bays for PCIe SSD
PYBBA24PL
max 1x for system
Base Unit: PYR2547RAN PYR2547REN PYR2547RGN PYR2547RHN PYR2547R2N 1x EPxxxi NVMe or 1x Retimer is required. Thermal restriction: refer to Thermal Rule
Includes all necessary cage, backplane and cables

Upgrade kit of Rear 2x 2.5" bays for SAS/SATA HDD/SSD
PYBBA24SF **PY-BA24SF**
max 1x for system
Base Unit: PYR2547RAN PYR2547REN PYR2547RGN PYR2547RHN Thermal restriction: refer to Thermal Rule
Includes all necessary cage, backplane and cables

Upgrade kit of Rear 2x 2.5" bays for PCIe SSD
PYBBA24PM **PY-BA24PM**
max 1x for system
Base Unit: PYR2547RAN PYR2547REN PYR2547RGN PYR2547RHN 2nd Retimer is required. No mixed with EPxxxii NVMe. Thermal restriction: refer to Thermal Rule
Includes all necessary cage, backplane and cables

No possible together with Upgrade kit of Rear 4x/2x 2.5" bays

No possible together with Upgrade kit of Rear 4x/2x 2.5" bays

Full Hight PCIe(x8) Riser right
PYBPRE853
PY-PRE853
PCIe 5.0 x8 provides two full height slots (slot 3 and 4)
max 1x for system in PCIe slot 2
Base Unit: All Base unit Except for PYR2547RJN/PYR2547RKN /PYR2547RLN

Full Hight PCIe(x16) Riser right
PYBPRE648
PY-PRE648
PCIe 5.0 x16 provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Base Unit: All Base unit Except for PYR2547RJN/PYR2547RKN /PYR2547RLN

GFX/GPU Mounting Kit right
PCIe 5.0 x16 provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Included in PYR2547RJN PYR2547RKN PYR2547RLN

Full Hight PCIe(x8) Riser left
PYBPRE854
PY-PRE854
PCIe 5.0 x8 provides two full height slots (slot 9 and 10)
max 1x for system in PCIe slot 8
Base Unit: All Base unit Except for PYR2547RJN/PYR2547RKN /PYR2547RLN

Full Hight PCIe(x16) Riser left
PYBPRE649
PY-PRE649
PCIe 5.0 x16 provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: All Base unit Except for PYR2547RJN/PYR2547RKN /PYR2547RLN

GFX/GPU Mounting Kit left
PYBTKMX0K
PY-TKMX0K
PCIe 5.0 x16 provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: PYR2547RJN PYR2547RKN PYR2547RLN

PRIMECENTER Rack

Chapter 2 - Rack architecture

PRIMECENTER Rack

Rack Architecture			Remark		
No RMK	1x	Only with loose server order	**S26361-F2735-E111**	**n/a**	no mounting in rack
Rack Mount Kit	1x	RMK 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 2U	1x	Cable mgmt. arm for 2U or higher	**PYBRA05**	**PY-RA05**	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

B

Chapter 3 - CPU

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With **one** processor OCPv3, iRMC, 2x PCIe low profile slots Internal RAID card slot and 16x DIMM slots are available
>> With **two** processors all 32x DIMM slots, 6x PCIe low profile slots are available.
>> To configure 2nd CPU an additional cooler kit is required.
**Xeon Bronze 3408U, Xeon Gold 5412U and Xeon Gold 6414U are not allowed to configure 2nd CPU.

** Liquid cooling is required.

			CPU Group for Thermal condition 10x3.5" /12x3.5" /16x2.5"/ 24x2.5"		
Xeon Bronze 34xx - Mainline, 1 socket configuration only	(BTO)	(Loose delivery)			
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4000 MT/s					
Xeon Bronze 3408U 8C 1.8GHz 125W	PYBCP65XR	-	A		MCC
Xeon Silver 44xx - Mainline, 2 socket scalability	(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		MCC
Xeon Silver 4416+ 20C 2.0GHz 165W	PYBCP66XH	PY-CP66XH	B		MCC
Xeon Gold 54xx - Mainline/Performance Optimized, 1 socket configuration only	(BTO)	(Loose delivery)			
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s					
Xeon Gold 5412U 24C 2.1GHz 185W	PYBCP65XS	-	B		MCC
Xeon Gold 54xx - Mainline/Performance Optimized, 2 socket scalablity	(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		MCC
Xeon Gold 5418Y 24C 2.0GHz 185W Speed Select Technology	PYBCP65XW	PY-CP65XW	B		MCC
Xeon Gold 5420+ 28C 2.0GHz 205W	PYBCP65XX	PY-CP65XX	B		MCC
Xeon Gold 64xx - Mainline/Performance Optimized, 1 socket configuration only	(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		XCC
Xeon Gold 64xx - Mainline/Performance Optimized, 2 socket scalability	(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		MCC
Xeon Gold 6430 32C 2.1GHz 270W (DDR5 @ 4400(1DPC/2DPC))	PYBCP65X2	PY-CP65X2	D		XCC
Xeon Gold 6434 8C 3.7GHz 195W	PYBCP66X4	PY-CP66X4	D		
Xeon Gold 6438Y+ 32C 2.0GHz 205W Speed Select Technology	PYBCP66X8	PY-CP66X8	D		MCC
Xeon Gold 6442Y 24C 2.6GHz 225W Speed Select Technology	PYBCP66X9	PY-CP66X9	C		MCC
Xeon Gold 6444Y 16C 3.5GHz 270W Speed Select Technology	PYBCP66XA	PY-CP66XA	D		MCC
Xeon Gold 6448Y 32C 2.1GHz 225W Speed Select Technology	PYBCP66XC	PY-CP66XC	C		MCC
Xeon Platinum 84xx - Mainline/Performance, 2 socket scalability	(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		MCC
Xeon Platinum 8452Y 36C 2.0GHz 300W Speed Select Technology	PYBCP65X8	PY-CP65X8	D		XCC
Xeon Platinum 8460Y+ 40C 2.0GHz 300W Speed Select Technology	PYBCP65XE	PY-CP65XE	D		XCC
Xeon Platinum 8468 48C 2.1GHz 350W	PYBCP65XF	PY-CP65XF	D		XCC
Xeon Platinum 8470 52C 2.0GHz 350W	PYBCP65XK	PY-CP65XK	D		XCC
Xeon Platinum 8480+ 56C 2.0GHz 350W	PYBCP65XN	PY-CP65XN	D		XCC
Xeon Platinum 84xxH - IMDB/Analytics Workload Optimized, 8 socket scalability	(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		XCC
Xeon - Cloud Optimized, 2 socket scalability	(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	B		MCC
Xeon Platinum 8468V 48C 2.4GHz 330W Speed Select Technology	PYBCP65XJ	PY-CP65XJ	D		XCC
Xeon Platinum 8458P 44C 2.7GHz 350W Speed Select Technology	PYBCP65XB	PY-CP65XB	D		XCC
Xeon - Network Optimized, 2 socket scalability	(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 Technology	PYBCP65XV	PY-CP65XV	B		MCC
Xeon Gold 6428N 32C 1.8GHz 185W (DDR5 @ 4000(1DPC/2DPC)) Speed Select Technology	PYBCP66X3	PY-CP66X3	B		MCC
Xeon Gold 6438N 32C 2.0GHz 205W Speed Select Technology	PYBCP66X7	PY-CP66X7	B		MCC
Xeon Platinum 8470N 52C 1.7GHz 300W Speed Select Technology	PYBCP65XL	PY-CP66X7	D	Will be available 3Q.CY2023	XCC
Xeon - Storage & HCI Workload Optimized, 2 socket scalability	(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 Technology	PYBCP65XU	PY-CP65XU	A		MCC
Xeon Gold 6454S 32C 2.2GHz 270W Speed Select Technology	PYBCP65X3	PY-CP65X3	D		XCC
Xeon - Long-Life Use (IOT) Workload Optimized, 2 socket scalability	(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		MCC
Xeon - HBM HPC Workload Optimize, 2 socket scalability, 3UPI	(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	Will be available 3Q.CY2023	HBM
Xeon Max 9460 40C 2.2GHz 350W	PYBCP66XK	PY-CP66XK	E	Will be available 3Q.CY2023	HBM
Xeon - HBM HPC Workload Optimize, 2 socket scalability, 4UPI	(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	Will be available 3Q.CY2023	HBM

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 including 2U heat sink for the configuration without GFX/GPU mounting kit	**-**	**PY-TKCPC91**
Cooling kit includding 1U EVAC heatsink for the graphics base unit PYR2547RJN/PYR2547JKN/PYR2547RLN	**-**	**PY-TKCPC90**
Cooling kit 1U EVAC heatsink and air duct for CPU A (Required for rear Bay with KIOXIA NVMe for 3.5" base unit)	**PYBTKCPCA2**	
Cooling kit 1U EVAC heatsink and air duct for CPU B (Required for rear Bay with KIOXIA NVMe for 3.5" base unit)	**PYBTKCPCA3**	**-**

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 32 Slots you have to configure 2nd CPU.
Depending on the amount of memory configured you can decide Normal Memory RAS mode or Mirroing 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

Memory Mode ; either one of follwoig memory modes must be selected.				
Nomal Mode	Requires 1, 2, 4, 6, 8, 12 or 16 memory Module per CPU	1x per CPU	PYBMMD2	
Normal Mode required to be the best performance. ADDDC Sparing is available in case system configured by DDR5xRx4 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**	Will be available 3Q.CY2023
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, 1, 2, 4, 8 or 16 memory Module per CPU	1x per CPU	**PYBMMHC1**	Will be available 3Q.CY2023
HBM works as cache of memory under BIOS preconfiguration. Additional DIMM is needed				
HBM Cache+Mirroring Mode	Requires HBM CPU, 8 or 16 memory Module per CPU	1x per CPU	**PYBMMHCM1**	Will be available 3Q.CY2023
HBM works as cache of memory under BIOS preconfiguration.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 Flat Mode	Requires HBM CPU, 1, 2, 4, 8 or 16 memory Module per CPU	1x per CPU	**PYBMMHF1**	Will be available 3Q.CY2023
In this Mode, DDR can be added for a high capacity, HBM&DDR exposed as separete regions. Higher performing than Cache mode.				
HBM Flat+Mirroring Mode	Requires HBM CPU, 8 or 16 memory Module per CPU	1x per CPU	**PYBMMHFM1**	Will be available 3Q.CY2023
In this Mode, DDR can be added for a high capacity, HBM&DDR exposed as separete 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 ony configuration section

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

DDR5 Registered DIMM 4800MHz 1R/2R x8				
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				

DDR5 Registered DIMM 4800MHz 1R/2R x4				
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				

DDR5 Registered DIMM 4800MHz 3DS 4R/8R x4				
128GB (1x128GB) 4Rx4 DDR5-4800 R 3DS ECC	max 16x per CPU	PYBME12SL	PY-ME12SL	Will be available 2Q.CY2023
256GB (1x256GB) 8Rx4 DDR5-4800 R 3DS ECC	max 16x per CPU	PYBME25SL	PY-ME25SL	Will be available 2Q.CY2023
max 16x per CPU; max 32x for System				

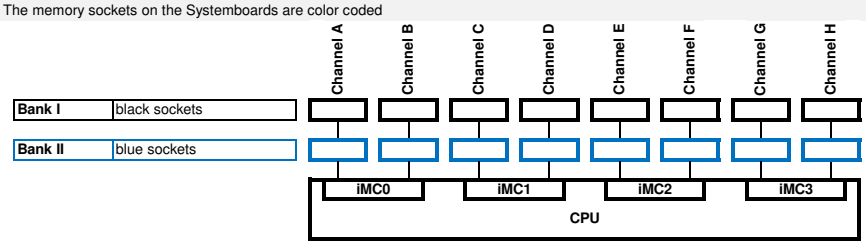
D

Detailed information

RAS feature	Memory Mode	RDIMM	RDIMM LRDIMM	BIOS setting
		x8	x4	
ECC	Normal Mode/Mirroring Mode	yes	yes	always enabled.
SDDC	Normal Mode/Mirroring Mode	no	yes	always enabled in case x4 DIMM conifugred.
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%

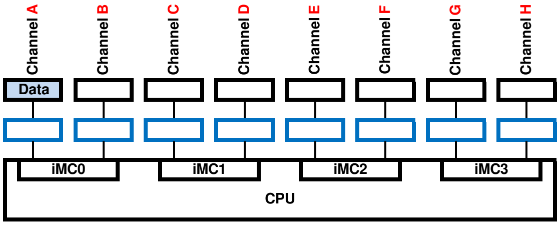
The memory sockets on the Systemboards are color coded



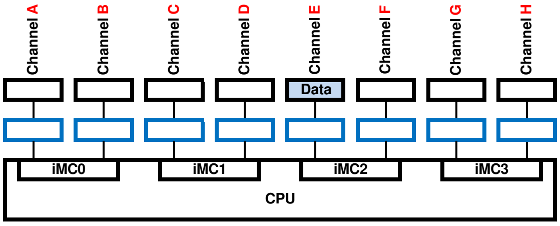
Normal Mode population DDR5 DIMM only

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

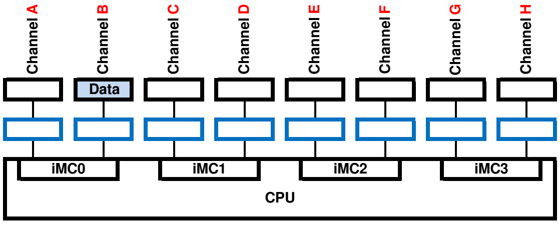
1 DIMMs for 1CPU



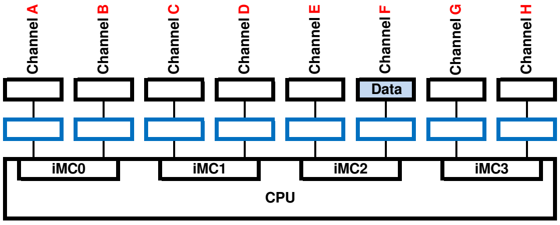
1 DIMMs for 1CPU



1 DIMMs for 1CPU

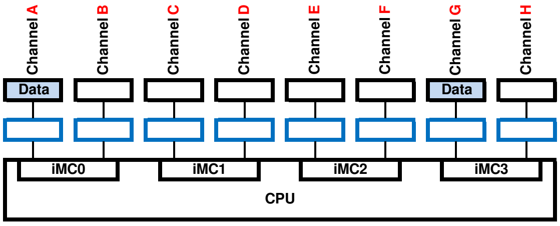


1 DIMMs for 1CPU



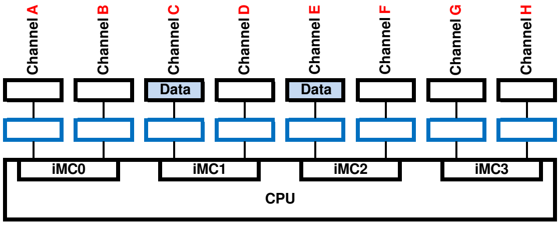
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



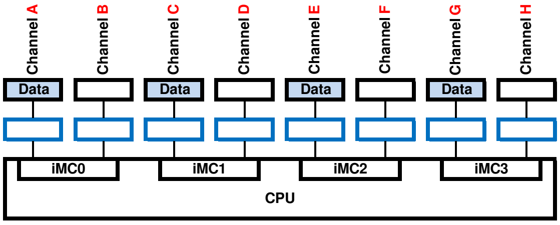
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



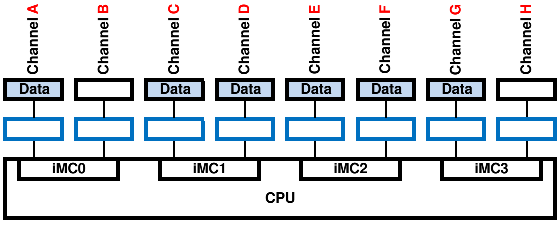
4 DIMMs for 1CPU

4x identical memory modules need to be populated.



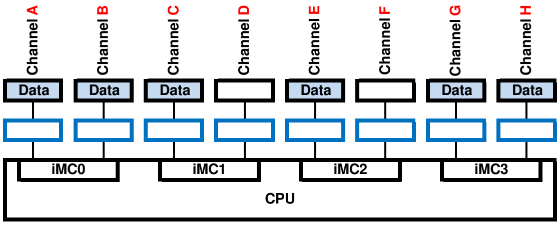
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



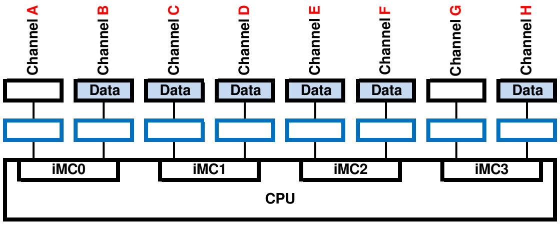
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



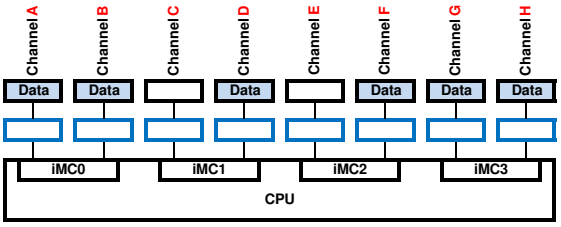
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



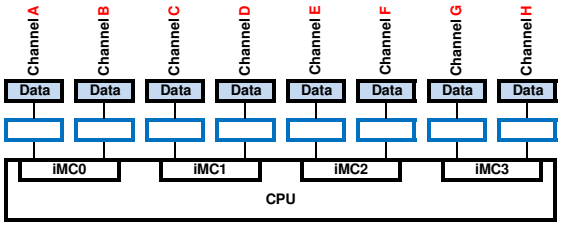
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



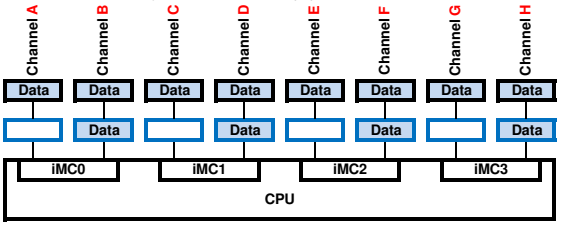
8 DIMMs for 1CPU

4x identical memory modules need to be populated.



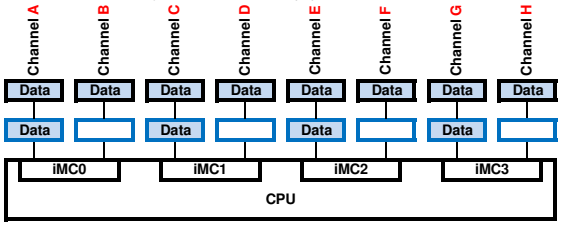
12 DIMMs for 1CPU

12x identical memory modules need to be populated.



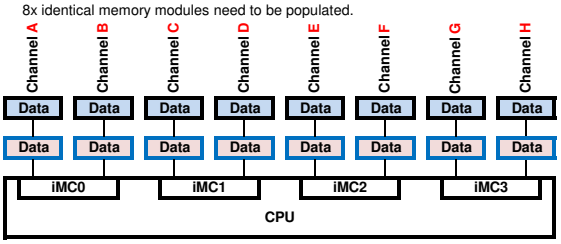
12 DIMMs for 1CPU

12x identical memory modules need to be populated.



16 DIMMs for 1CPU

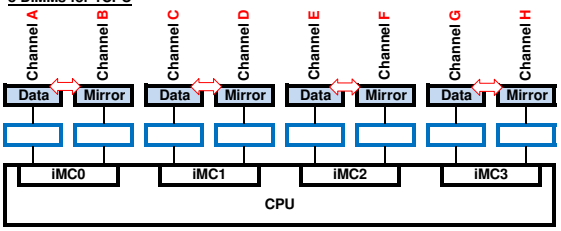
8x identical memory modules need to be populated.



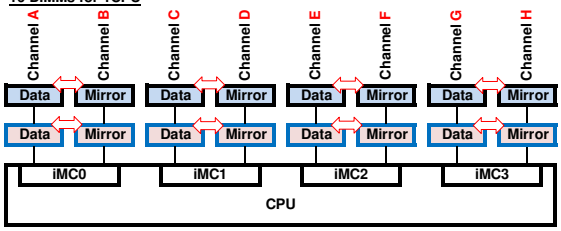
Mirroing Mode population DDR5 DIMM only

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

8 DIMMs for 1CPU



16 DIMMs for 1CPU



Chapter 5 - Graphics options

D

PYBVAP11
PY-VAP11
Front VGA connector (15-pin)
Front VGA connector (15-pin) including cable and front connector
Not for 12x3.5", 8x2.5", 24x2.5" base unit.
max. 1x per system

Optional Front VGA only possible for onboard graphics

The different GPU mixed configuration does not suppo

PYBVG4T2L
PY-VG4T2L
PGRAPHIC NVIDIA T400 4GB LP
NVIDIA T400
4GB PCIe 3.0 x16
Connectors: 3x Mini DP
no cable kits included
cables must be ordered seperately
Triple head + professional 2-D + 3-D
supported for Windows OS
support for Linux OS
Low profile bracket
max. 1x per system

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.

S26361-F4066-E11
S26361-F4066-L11
MiniDP-DP ADAPTER
max. 3x per card

S26361-F4066-E13
S26361-F4066-L13
DP-DVI ADAPTER
max. 3x per card

S26361-F4066-E12
S26361-F4066-L12
DP-VGA ADAPTER
max. 3x per card

NVIDIA A2/L4

The different GPU mixed configuration does not suppo

PYBVGA8L
PY-VGA8L
NVIDIA A2
NVIDIA A2 Card 16GB GDDR6 memory, PCIe Gen4

PCIe *8 (Gen4) - single width, low profile bracket, no external power

Limitation:
Refer to "Thermal Rule with Nvidia A2/L4 for each base unit".

max. 4x per system

If it would like to buy 8x NVIDIA A2,
you need to order "Mounting Kits" and 2x NVIDIA A2 Full-Height" type.

PYBVG4L1L
PY-VG4L1L
NVIDIA L4
NVIDIA L4 24GB GDDR6 memory, PCIe Gen4

PCIe *16 (Gen4) - single width, Low-Profile bracket, no external power

Limitation:
Refer to "Thermal Rule with Nvidia A2/L4 for each base unit".

max. 4x per system

If it would like to buy 8x NVIDIA L4,
you need to order "Mounting Kits" and 2x NVIDIA L4 Full-Height" type.

Full Hight PCIe(x16) Riser right
PYBPRE648
PY-PRE648
PCIe 5.0 x16
provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Base Unit: All Base unit
Except for PYR2547RJN/PYR2547RKN
/PYR2547RLN

Full Hight PCIe(x16) Riser left
PYBPRE649
PY-PRE649
PCIe 5.0 x16
provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: All Base unit
Except for PYR2547RJN/PYR2547RKN
/PYR2547RLN

PYBVGA8
PY-VGA8
NVIDIA A2
NVIDIA A2 Card 16GB GDDR6 memory, PCIe Gen4

PCIe *8 (Gen4) - single width, Full-Height bracket, no external power cable, 60W

Limitation:
Refer to "Thermal Rule with Nvidia A2/L4 for each base unit".

max. 2x per system

PYBVG4L1
PY-VG4L1
NVIDIA L4
NVIDIA L4 24GB GDDR6 memory, PCIe Gen4

PCIe *16 (Gen4) - single width, Full-Height bracket, no external power cable, 70W

Limitation:
Refer to "Thermal Rule with Nvidia A2/L4 for each base unit".

max. 2x per system

NVIDIA RTX A4500 / RTX A6000 / A30 / A100 80GB / 6000
NVIDIA A2 / A40 / A30 / H100 / L4 / L40

The different GPU mixed configuration does not suppo

GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2
included in GFX/GPU base units

PYBCBG015
PY-CBG015
GPU power cable
needs 1x per A4500,

PYBTKM0K
PY-TKM0K
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU.

PYBCBG015
PY-CBG015
GPU power cable
needs 1x per A4500,

GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2
included in GFX/GPU base units

PYBCBG014
PY-CBG014
GPU power cable
needs 1x per H100, L40

PYBTKM0K
PY-TKM0K
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU.

PYBCBG014
PY-CBG014
Power cable for GPU card
needs 1x per H100, L40

GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2
included in GFX/GPU base units

PYBCBG016
PY-CBG016
GPU power cable
needs 1x per A30, A40,A100,RTX A6000, A30X, A100X

PYBTKM0K
PY-TKM0K
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU.

PYBCBG016
PY-CBG016
GPU power cable
needs 1x per A30, A40,A100,RTX A6000, A30X, A100X

PYBVA4A7
PY-VA4A7
PY NVIDIA RTX A4000
NVIDIA RTX A4000 Card w/ 20GB GDDR6 RAM, PCIe Gen4, 2000

power cables from PSU need to be ordered separately
PCIe *16 (Gen4) - double width - occupies space for one PCIe slot, Full height bracket

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

Display connector:
DisplayPort x 4

max. 2x per system

PYBGPH11
PY-GPH11
NVIDIA H100 80GB
NVIDIA H100 80GB HBM2e memory, PCIe Gen5, 350W

power cables from PSU need to be ordered separately.

PCIe *16 (Gen5) - double width - occupies space for two PCIe slots, Full height bracket

Limitation:
max. 2x per system

PYBVGAL2
PY-VGAL2
NVIDIA L40
NVIDIA L40 48GB GDDR6 memory, PCIe Gen4, 300W

power cables from PSU need to be ordered separately.

PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Limitation:
max. 2x per system

PYBVA6A1
PY-VA6A1
PY NVIDIA A40
NVIDIA A40 Card with 48GB GDDR6 RAM, PCIe Gen4

power cables from PSU need to be ordered separately
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Display connector:
DisplayPort x 3

** not support for DP connectors!!

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

max. 2x per system

PYBGPA10
PY-GPA10
NVIDIA A100 80GB
NVIDIA A100 Card 80GB HBM2 memory, PCIe Gen4, 300W

power cables from PSU need to be ordered separately.

PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

max. 2x per system

PYBVGA8
PY-VGA8
NVIDIA A30
NVIDIA A30 Card w/ 24GB HBM2, PCIe Gen4, 165W

power cables from PSU need to be ordered separately.

PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

max. 2x per system

PYBVGA8
PY-VGA8
PY NVIDIA RTX A6000
NVIDIA RTX A6000 Card with 48GB GDDR6 RAM, PCIe Gen4, 300W

power cables from PSU need to be ordered separately.
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Display connector:
DisplayPort x 4

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

max. 2x per system

PYBVGAL8
PY-VGAL8
PY NVIDIA RTX 6000
NVIDIA RTX 6000 Card with 48GB GDDR6 RAM, PCIe Gen4, 300W

power cables from PSU need to be ordered separately.
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket

Display connector:
DisplayPort x 4

Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"

max. 2x per system

S26361-F4066-E12
S26361-F4066-L12
DP-VGA ADAPTER
max. 4x Quadro RTX A6000, 3x (RTX4000/A40)

S26361-F4066-E13
S26361-F4066-L13
DP-DVI ADAPTER
max. 4x Quadro RTX A6000, 3x (RTX4000/A40)

S26361-F4066-E12
S26361-F4066-L12
DP-VGA ADAPTER
max. 4x Quadro RTX A6000(RTX A4500) / 3x (RTX4000)

S26361-F4066-E13
S26361-F4066-L13
DP-DVI ADAPTER
max. 4x Quadro RTX A6000(RTX A4500) / 3x (RTX4000)

Supported for GPU pass through and vGPU (shared GPU) under Citrix XenServer 7.x & 8.2(LTS) and XenDesktop. Workload depends on application. Ideal for virtualized GPU or shared GPU workload like "Power Users" or "Knowlegde Workers", including "Designer" as full power graphic USER.
Supported for VMware ESXi 6.x(under discussion in VMWare) & 7.x shared (vSGA) & dedicated (vDGA) virtual graphic support.
All guests OSes are supported if listed at OS vendors HCL.
NOT certified for CAD / CAM / CAX type of applications using dedicated GPU.

For NVIDIA GRID SW License to use the virtual graphic (GRID) functionality, a SW activation key **and** support licence has to be purchased additionally. Please refer to additional licence oferings 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 as factory!

NVIDIA A2/ A30 / A40 /A16 / RTX A6000
NVIDIA A100 80GB / H100 80GB / L4/ L40

PYBVGA4BL
PY-VGA4BL
NVIDIA A2
NVIDIA A2 Card 16GB GDDR6 memory. PCIe Gen4

PCIe *8 (Gen4) - single width, low profile bracket, no external power
Limitation:
max. 4x per system

**If it would like to buy 5x NVIDIA A2,
you need to order "Mounting Kits" and 2x NVIDIA A2 Full-Height" type.**

PYBVGL1L
PY-VGL1L
NVIDIA L4
NVIDIA L4 24GB GDDR6 memory. PCIe Gen4

PCIe *16 (Gen4) - single width, low profile bracket, no external power
Limitation:
max. 4x per system

**If it would like to buy 5x NVIDIA L4,
you need to order "Mounting Kits" and 2x NVIDIA L4 Full-Height" type.**

GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2
included in GFX/GPU base units

GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2
included in GFX/GPU base units

PYBCBG014
PY-CBG014
GPU power cable
needs 1x per H100, L40

PYBCBG016
PY-CBG016
GPU power cable
needs 1x per A30, A40,A100,RTX A6000, A30X, A100X

Full Hight PCIe(x16) Riser right
PYBPRE648
PY-PRE648
PCIe 5.0 x16
provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Base Unit: All Base unit
Except for PYR25477LIN/PYR25477RIN
/PYR25478LN

Full Hight PCIe(x16) Riser right
PYBPRE648
PY-PRE648
PCIe 5.0 x16
provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Base Unit: All Base unit
Except for PYR25477LIN/PYR25477RIN
/PYR25478LN

Full Hight PCIe(x16) Riser left
PYBPRE649
PY-PRE649
PCIe 5.0 x16
provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: All Base unit
Except for PYR25477LIN/PYR25477RIN
/PYR25478LN

Full Hight PCIe(x16) Riser left
PYBPRE649
PY-PRE649
PCIe 5.0 x16
provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: All Base unit
Except for PYR25477LIN/PYR25477RIN
/PYR25478LN

PYBTKMX0K
PY-TKMX0K
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU

PYBTKMX0K
PY-TKMX0K
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU

PYBCBG014
PY-CBG014
GPU power cable
needs 1x per H100, L40

PYBCBG016
PY-CBG016
GPU power cable
needs 1x per A30, A40,A100,RTX A6000, A30X, A100X,B200

PYBVGA2B
PY-VGA2B
NVIDIA A2
*

PCIe *8 (Gen4) - single width, Full-height bracket, no external power
Limitation:
max. 2x per system

PYBVGL1
PY-VGL1
NVIDIA L4
NVIDIA L4 24GB GDDR6 memory. PCIe Gen4

PCIe *16 (Gen4) - single width, low profile bracket, no external power
Limitation:
max. 2x per system

PYBGPH11 (will be available in PY-GPH011 (will be available in
NVIDIA H100 80GB
NVIDIA H100 80GB HBM2e memory. PCIe Gen5, 350W
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGL2 (will be available in PY-VGL2 (will be available in
NVIDIA L40
NVIDIA L40 48GB GDDR6 memory. PCIe Gen4, 300W
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBGPA10
PY-GPA010
NVIDIA A100 80GB
NVIDIA A100 Card with 6912 CUDA cores(FP32) & 80GB HBM2 memory. PCIe Gen4, 250 - 300W
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGA5
PY-VGA5
NVIDIA A30
NVIDIA A30 Card 24GB HBM2 PCIe Gen4, 165W
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGA4
PY-VGA4
NVIDIA A16
NVIDIA A16 Card 64GB GDDR6. PCIe Gen4, 300W
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGA2
PY-VGA2
PY NVIDIA RTX A6000
NVIDIA RTX A6000 Card 48GB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGL3
PY-VGL3
NVIDIA RTX 6000
NVIDIA RTX 6000 Card 48GB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

PYBVGA1
PY-VGA1
PY NVIDIA A40
NVIDIA A40 Card 48GB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordered separately.
/
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

Perpetual Software license

S26361-F4024-S101
S26361-F4024-L101
GRID Virtual Applications (vApps) Perpetual License, 1 CCU

S26361-F4024-S201
S26361-F4024-L201
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S26361-F4024-L301
NVIDIA Quadro Virtual Datacenter Work Station (vDWS) Perpetual License, 1 CCU

SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.

S26361-F4024-S605
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NVIDIA GRID vApps Prod SUMS **5 year** 1CCU
same volume with perpetual license

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NVIDIA GRID vPC Prod SUMS **3 year** 1 CCU
same volume with perpetual license

S26361-F4024-S820
S26361-F4024-L820
NVIDIA Quadro vDWS Prod SUMS **5 year** 1 CCU
same volume with perpetual license

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

S26361-F4024-L956
NVIDIA GRID vApps Prod SUMS 6 months Renew, 1CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

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NVIDIA GRID vPC Prod SUMS 6 months Renew, 1 CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L976
NVIDIA GRID vWS Prod SUMS 6 months Renew, 1 CCU
NVIDIA SUMS License (6 months) for renewal. It needs if you need to continue SUMs.

NVIDIA SUMS License (1 year) for renewal - Loose Delivery -

S26361-F4024-L901
NVIDIA GRID vApps Prod SUMS 1yr Renew, 1CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L911
NVIDIA GRID vPC Prod SUMS 1yr Renew, 1 CCU
NVIDIA SUMS License (1year) for renewal. It needs if you need to continue SUMs.

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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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S26361-F4024-L952
NVIDIA GRID vApps Prod SUMS 2yrs Renew, 1CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L962
NVIDIA GRID vPC Prod SUMS 2yrs Renew, 1 CCU
NVIDIA SUMS License (2years) for renewal. It needs if you need to continue SUMs.

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NVIDIA GRID vApps Prod SUMS 3yrs Renew, 1CCU
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S26361-F4024-L963
NVIDIA GRID vPC Prod SUMS 3yrs Renew, 1 CCU
NVIDIA SUMS License (3years) for renewal. It needs if you need to continue SUMs.

S26361-F4024-L973
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NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

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NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

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NVIDIA SUMS License (4years) for renewal. It needs if you need to continue SUMs.

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NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

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NVIDIA GRID vPC Prod SUMS 5yrs Renew, 1 CCU
NVIDIA SUMS License (5years) for renewal. It needs if you need to continue SUMs.

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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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EOL: S26361-F4024-S345 / S26361-F4024-L345 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 3 Years~~
EOL: S26361-F4024-S349 / S26361-F4024-L349 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 5 Years~~

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S26361-F4024-L926 — NVIDIA GRID vApps 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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S26361-F4024-L963 — 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.

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-L913 — 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.

NVIDIA vCompute Server Subscription License for renewal - Loose Deliverv -

S26361-F4024-L946 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (6 months) for renewal. It needs if you need to continue Subscription.~~
S26361-F4024-L956 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (1 year) for renewal. It needs if you need to continue Subscription.~~
S26361-F4024-L966 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (2 years) for renewal. It needs if you need to continue Subscription.~~
S26361-F4024-L486 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (3 years) for renewal. It needs if you need to continue Subscription.~~
S26361-F4024-L494 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (4 years) for renewal. It needs if you need to continue Subscription.~~
S26361-F4024-L496 — ~~NVIDIA vCompute Server Subscription 1 GPU (Max 8 GC VM) EDU, 1 Year~~ — ~~NVIDIA Subscription License (5 years) for renewal. It needs if you need to continue Subscription.~~

Education Software license

Perpetual license

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

EDU SUMs must be ordered in equal numbers with each SW perpetual licences. Please refer data sheet.

S26361-F4024-S935 / S26361-F4024-L935 — NVIDIA GRID EDU SUMS 5 year, 1 CCU — Note: volume with EDU

Subscription license

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Converged Accelerator card

GFX/GPU Mounting Kit right — max. 1x per system. — included in GFX/GPU base units

PYBCBG016 / PY-CBG016 — GPU power cable — needs 1x per A30, A40,A100,RTX A6000, A30X, A100X,6000

PYBTKMX0K / PY-TKMX0K — GFX/GPU Mounting Kit left — max. 1x per system in PCIe slot 8 — needs 2nd CPU.

PYBCBG016 / PY-CBG016 — GPU power cable — needs 1x per A30, A40,A100,RTX A6000, A30X, A100X

PYBCAA1 (will be available in Ju / PY-CAA1 (will be available in Jul — NVIDIA A30X — NVIDIA A30X 24GB HBM2e memory, DPU, PCIe Gen5 — power cables from PSU need to be ordered separately. — PCIe "16 (Gen5) - double width - occupies space for two PCIe slots. — Limitation: TBD — max. 2 per system

PYBCAA2 (will be available in Ju / PY-CAA2 (will be available in Jul — NVIDIA A100X — NVIDIA A100X 80GB HBM2e memory, DPU, PCIe Gen5 — power cables from PSU need to be ordered separately. — PCIe "16 (Gen5) - double width - occupies space for two PCIe slots. — Limitation: TBD — max. 2x per system

TBD — Network cables

TBD — Network cables

NVIDIA A30 / A40
NVIDIA A100 80GB / H100 80GB

A30 will be available in August 2023

GFX/GPU Mounting Kit right — max. 1x per system in PCIe slot 8 — included in GFX/GPU base units

PYBCBG014 / PY-CBG014 — GPU power cable — needs 1x per H100

PYBCBG016 / PY-CBG016 — GPU power cable — needs 1x per A30, A40,A100

PYBTKMX0K / PY-TKMX0K — GFX/GPU Mounting Kit left — max. 1x per system in PCIe slot 8 — needs 2nd CPU.

PYBCBG014 / PY-CBG014 — GPU power cable — needs 1x per H100

PYBTKMX0K / PY-TKMX0K — GFX/GPU Mounting Kit left — max. 1x per system in PCIe slot 8 — needs 2nd CPU.

PYBCBG016 / PY-CBG016 — GPU power cable — needs 1x per A30, A40,A100

PYBQPH11 / PY-QPH11 — NVIDIA H100 80GB — NVIDIA H100 80GB HBM2e memory, PCIe Gen5, 350W — power cables from PSU need to be ordered separately. — F — Limitation: Refer to "Limitation with GFX/GPU card for each base unit" — max. 2x per system

PYBQPA10 / PY-QPA10 — NVIDIA A100 80GB — NVIDIA A100 Card with 6912 CUDA cores(FP32) & 80GB HBM2 memory PCIe Gen4, 250 - 300W — power cables from PSU need to be ordered separately. — F — Limitation: Refer to "Limitation with GFX/GPU card for each base unit" — max. 2x per system

PYBVGA45 / PY-VGA45 — NVIDIA A30 — NVIDIA A30 Card 24GB HBM2 PCIe Gen4, 165W — power cables from PSU need to be ordered separately. — F — Limitation: Refer to "Limitation with GFX/GPU card for each base unit" — **max. 2x per system**

PYBVGA41 / PY-VGA41 — PY NVIDIA A40 — NVIDIA A40 Card 48GB GDDR6 RAM, PCIe Gen4 — power cables from PSU need to be ordered separately. — F — Limitation: Refer to "Limitation with GFX/GPU card for each base unit" — max. 2x per system

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E

Chapter 6 - Drive cage and PCIe riser options

F

Detailed PCIe slot description:

Slot 10 PCIe-5 x8, max. 270mm @ CPU2	full-height slot
Slot 9 PCIe-5 x8, max. 270mm @ CPU2	full-height slot
Slot 8 PCIe-5 x16, max. 198mm @ CPU2 ***Possibility to install PCIe riser with x8*** ***Slot for 1st Retimer card***	low-profile slot
Slot 7 PCIe-5 x16, max. 198mm @ CPU2	low-profile slot
Slot 6 PCIe-5 x8, max. 198mm @ CPU2 ***Preferred slot for 3rd modular RAID-Controller (3x configuration)*** ***Preferred slot for 2nd modular RAID-Controller (2x configuration)***	low-profile slot
Slot 5 PCIe-5 x8, max. 198mm @ CPU2 ***Preferred slot for 2nd modular RAID-Controller (3x configuration)***	low-profile slot
Slot 4 PCIe-5 x8, max. 270mm @ CPU1	full-height slot
Slot 3 PCIe-5 x8, max. 270mm @ CPU1	full-height slot
Slot 2 PCIe-5 x16, max. 198mm @ CPU1 ***Possibility to install PCIe riser with x8*** ***Slot for 2nd Retimer card***	low-profile slot
Slot 1 PCIe-5 x16, max. 198mm @ CPU1	low-profile slot

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 available from 2023/09					
6Gb/s SATA	Intel VROC (SATA RAID) based on chipset	No Cache	SW-RAID 0, 1, 10	2x	**onboard, included**

OS support matrix:	
Windows Server 2022	testing
Windows Server 2019	testing
Red Hat Enterprise Linux 9 GA, 9.1	testing
Red Hat Enterprise Linux 8.6	testing
SUSE Linux Enterprise Server 15 SP4	testing
VMware ESXi	Not supported
Support OS may vary by system.	

internal HBA and RAID controller, no 2nd Level cache

internal RAID / HBA controllers for SAS, SATA HDD or SSD drives					
PRAID CP600i LP available from 2024/03	No Cache	RAID 0, 1, 10	3x	**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					
PSAS CP600i LP	No Cache	HBA, no RAID	2x	**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					
PRAID CP500i LP	No Cache	RAID 0, 1, 10, 5, 50	3x	**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 SSD drives					
PSAS CP 2200-16i LP available from 2024/03	No Cache	HBA + RAID 0, 1, 10, 5	2x	**PYBSC4MA1L**	**PY-SC4MA1**
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) supports SED (Self Encrypting Drives) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSC4MA1L and PYBSC4MA2L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
PSAS CP 2100-8i LP	No Cache	HBA + RAID 0, 1, 10, 5	3x	**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					
PSAS CP 2100-8i LP for vSAN	No Cache	HBA, no RAID	3x	**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 PYR2547R3N / PYR2547RAN / PYR2547R2N / PYR2547RBN / PYR2547REN / PYR2547RGN / PYR2547RJN / PYR2547RKN					

internal RAID / HBA controllers for PCIe SSD drives					
PSAS CP 2200-16i NVMe LP available from 2024/03	No Cache	HBA + RAID 0, 1, 10, 5	2x	**PYBSC4MA2L**	**PY-SC4MA1**
for Chassis Variant PYR2547RAN, PYR2547R2N and PYR2547RDN up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above) requires 1x LP PCIe 4.0 x8 (int.) slot (FYI: PYBSC4MA1L and PYBSC4MA2L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SSD drives					
PRAID EP781i FH High Performance	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	**PYBSR4C73**	**PY-SR4C73**
available from 2024/07 **for Chassis Variant PYR2547RFN** 16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 drives without expander supports SED (Self Encrypting Drives) requires 1x FH PCIe 4.0 x16 (int.) slot, based on LSI SAS4116W					
PRAID EP740i LP available from 2024/07	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4C71L**	**PY-SR4C71**
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives 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 explicite ordering and cabling)					
internal RAID controllers for SAS, SATA HDD or SSD drives					
PRAID EP640i LP	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	3x	**PYBSR4C63L**	**PY-SR4C63**
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					
PRAID EP680i LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4C6L**	**PY-SR4C6**
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (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 SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
internal RAID controllers for SAS, SATA HDD or SSD drives					
PRAID EP520i LP	2GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	3x	**S26361-F4042-E202**	**S26361-F4042-L502**
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					
PRAID EP540i LP	4GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	**S26361-F4042-E214**	**S26361-F4042-L514**
PRAID EP580i LP	8GB Cache	RAID 0, 1, 1E, 10, 5, 50, 6, 60	2x	**S26361-F4042-E208**	**S26361-F4042-L508**
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)

FBU option for PRAID EP5xx / EP6xx / EP7xx in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 75cm length	1x	**PYBFBR19**	**PY-FBR19**
FBU option for PRAID EP5xx / EP6xx / EP7xx in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length (for Base Units for graphics)	1x	**S26361-F4042-E155**	**S26361-F4042-L110**
FBU option for PRAID EP5xx / EP6xx / EP7xx in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length	1x	**S26361-F4042-E155**	**S26361-F4042-L110**

internal RAID controllers for PCIe SSD drives					
PRAID EP740i NVMe LP available from 2024/07	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4C72L**	**PY-SR4C71**
for Chassis Variant PYR2547RAN, PYR2547R2N and PYR2547RDN					
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above)					
requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS4116					
(FYI: PYBSR4C71L and PYBSR4C72L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU option for PRAID EP7xx in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length			1x	**S26361-F4042-E155**	**S26361-F4042-L110**
internal RAID controllers for PCIe SSD drives					
PRAID EP680i NVMe LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4C62L**	**PY-SR4C6**
for Chassis Variant PYR2547RAN, PYR2547R2N and PYR2547RDN					
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only 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 explicite ordering and cabling)					

internal RAID controllers for SAS, SATA HDD or SSD drives					
PRAID EP 3252-8i LP	2GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	3x	**PYBSR4MA1L**	**PY-SR4MA1**
PRAID EP 3254-8i LP	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	3x	**PYBSR4MA2L**	**PY-SR4MA2**
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					
PRAID EP 3258-16i LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4MA3L**	**PY-SR4MA3**
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander					
(the configuration for up to 4 x4 NVMe drives 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 explicite ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU option for PRAID EP 325x in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 80cm length			1x	**PYBFBM013**	**PY-FBM01**
FBU option for PRAID EP 325x in internal RAID slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 46cm length (for Base Units for graphics)			1x	**PYBFBM012**	**PY-FBM01**
FBU option for PRAID EP 325x in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 46cm length			1x	**PYBFBM012**	**PY-FBM01**

internal RAID controllers for PCIe SSD drives					
PRAID EP 3258-16i NVMe LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4MA4L**	**PY-SR4MA3**
available from 2023/10 **for Chassis Variant PYR2547RAN, PYR2547R2N and PYR2547RDN**					
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above)					
requires 1x LP PCIe 4.0 x8 (int.) slot					
(FYI: PYBSR4MA3L and PYBSR4MA4L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU) available from 2023/10					
FBU option for PRAID EP 325x in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 46cm length			1x	**PYBFBM012**	**PY-FBM01**

FBU cannot be combined with Advanced Thermal design.
up to **2x FBU** can be integrated per System
up to 1x for internal RAID slot and up to 1x for rear PCIe slots

Cable kit for upgrade cards: For upgrade, L-parts Cable kit is available.
Cable Kit for EP6xxi/CP6xxi/EP7xxi/EP325x/CP2200-16i: PY-CBS107
Cable Kit for CP2100-8i / PRAID CP500i / PRAID EP520i / PRAID EP540i / PRAID EP580i: PY-CBS108
Cable Kit for SAS/SATA Rear Bay: PY-CBS109
Cable Kit for NVMe Rear Bay: PY-CBS110
Cable Kit for Retimer: PY-CBS111
Internal RAID riser module: PY-PREM04

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
PSAS CP600i for LTO	PSAS CP 2200-16i for LTO	
PRAID CP500i	PSAS CP 2100-8i	
PRAID EP740i	PSAS CP 2100-8i for vSAN	
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

external HBA controllers for SAS HDD or SSD drives					
PSAS CP600e FH	No Cache	HBA, no RAID	2x	**PYBSC4FAE**	**PY-SC4FAE**
PSAS CP600e LP	No Cache	HBA, no RAID		**PYBSC4FAEL**	
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 4x SFF8644 (external Mini-SAS HD)					
requires 1x FH or LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3816					

external RAID controller with 2nd Level cache

external RAID controllers for SAS HDD or SSD drives					
PRAID EP680e FH	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	2x	**PYBSR4C6E**	**PY-SR4C6E**
PRAID EP680e LP	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60		**PYBSR4C6EL**	
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, 2x SFF8644 (external Mini-SAS HD)					
supports SED (Self Encrypting Drives)					
requires 1x FH or LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916					
optional Flash Backup Unit (FBU)					
FBU option for PRAID EP6xx in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length			1x	**S26361-F4042-E155**	**S26361-F4042-L110**

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

internal controller for PCIe SSD (NVMe SSD)						
PCIe	Intel CPU	No Cache	No HW-RAID	-	**onboard, included**	
optional Licence Activation Key for Intel VROC (VMD NVMe RAID) available from 2023/10						
Intel VROC Upgrade Key Premiu	Intel CPU	No Cache	SW-RAID 0, 1, 10, 5	1x	**PYBRLVR02**	**PY-RLVR02**

Retimer card for 2,5" NVMe SSD PCIe SSD SFF (2,5" NVMe PCIe) in rear bay.					
PCIe x16 Retimer	No Cache	No HW-RAID	2x	**PYBPC501L**	**PY-PC501L**
No HW RAID, No Cache, simple route-through; device management by INTEL VMD					
divides PCIe5.0 x16 lanes into 4x x4 lanes , supports up to 4x 2.5" PCIe-SSD SFF					
requires 1x LP PCIe 4.0 x16 (int.) slot. 1st card in PCIe slot 8, 2nd card in PCIe slot 2.					
requires 2nd CPU.					
1x Retimer configuration requires at leaset 1x PCIe SSD, 2x Retimer configuration requires at leaset 5x PCIe SSDs.					

H

Chapter 8 - ODD optical disk drives

The base units with 12x 3.5" or 8x 2.5" or 24x 2.5" HDD do not offer 1x 9.5mm optical drive bay!

H
Config with 1x 9.5mm bay

S26361-F3778-E1 **S26361-F3778-L1**	**S26361-F3641-E6** **S26361-F3641-L6**	**S26361-F3718-E2** **S26361-F3718-L2**
DVD-RW supermulti ultra slim	Blu-ray Triple Writer ultra slim	DVD-ROM ultra slim
all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux	6x BD-RW, 8x DVD, 24x CD, BD DL and all CD/DVD formats	16x DVD; 48x CD-ROM
9.5mm, black bezel	9.5mm, black bezel	9.5mm black bezel
max. 1x per system	max. 1x per system	max. 1x per system

I

M

Chapter 11 - LAN Components

OCPv3 LoM Adapter

Broadcom 1GbE BASE-T for OCPv3				
PLAN CP N41T 4X 1000BASE-T OCPv3 PT	1x	Broadcom, 1GTx4port	PYBLA284U	PY-LA284U
max. 1 adapters per system				
Intel 1GbE BASE-T for OCPv3				
PLAN CP I350-T4 4X 1000BASE-T OCPv3 PT	1x	Intel, 1GTx4port	PYBLA274U	PY-LA274U
max. 1 adapters per system				
Intel 10GbE BASE-T for OCPv3				
PLAN EP X710-T2L 2X 10GBASE-T OCPv3 PT	1x	Intel, 10GTx2port	PYBLA342U	PY-LA342U
PLAN EP X710-T4L 4X 10GBASE-T OCPv3 PT	1x	Intel, 10GTx4port	PYBLA344U	PY-LA344U
max. 1 adapters per system				
Intel 10GbE for OCPv3				
Each cage consumes 1x optical SFP+ transceiver per port.				
Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules.				
All ports on this card can install the same Parts Number of optical module.				
PLAN EP X710-DA2 2X 10G SFP+ OCPv3 PT	1x	Intel, 10Gx2port	PYBLA352U	PY-LA352U
PLAN EP X710-DA4 4X 10G SFP+ OCPv3 PT	1x	Intel, 10Gx4port	PYBLA354U	PY-LA354U
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G/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. 1 adapters per system				
Broadcom 25GbE for OCPv3				
Each cage consumes 1x optical SFP28				
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 EP N225P 25Gb 2p SFP28 OCPv3	1x	Broadcom, 25Gx2port	PYBLA3G2U	PY-LA3G2U
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
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				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
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. 1 adapters per system				
NVIDIA 25GbE for OCPv3				
Each cage consumes 1x optical SFP28				
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 EP MCX6-LX 25Gb 2p SFP28 OCPV3	1x	NVIDIA, 25Gx2port	PYBLA402U4	PY-LA402U4
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
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				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
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. 1 adapters per system				
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 EP E810-XXVDA2 2X 25G SFP28 OCPv3 PT	1x	Intel, 25Gx2port	PYBLA402U	PY-LA402U
PLAN EP E810-XXVDA4 4X 25G SFP28 OCPv3 PT	1x	Intel, 25Gx4port	PYBLA404U	PY-LA404U
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 25G SR E25GSFP28SRX LC	4x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 25G LR E25GSFP28LRX LC	4x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09
max. 1x per port				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
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
max. 1x per port				
max. 1 adapters per system				

Will be available from 3Q,CY2023

Will be available from 4Q,CY2023

Will be available from 4Q,CY2023

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 N2100G 100Gb 2p QSFP56 OCPv3	1x	Broadcom, 100Gx2port	PYBLA452U	PY-LA452U	Will be available from 4Q,CY2023
Optional, 100Gb QSFP28 Optical Transceiver module					
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	
max. 1x per port					
max. 1x per system					

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 PT	1x	Intel, 100Gx2port	PYBLA432U	PY-LA432U
Optional, 100Gb QSFP28 Optical Transceiver module				
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
max. 1x per port				
max. 1x per system				

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 OCPv3PT	1x	NVIDIA, 100Gx2port ***cannot be selected with IB.**	PYBLA412U	PY-LA412U
Optional, 100Gb QSFP28 Optical Transceiver module				
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
max. 1x per port				
max. 1x per system				

PCIe Adapter

Broadcom 1GbE BEASE-T for PCIe				
Dual speed support, auto-sense: supports 1Gbps and 100Mbps line rate per-port.				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe FH	2x	Broadcom, 1GTx4port	PYBLA284	PY-LA284
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	2x		PYBLA284L	
max. 2x adapters per system				

Intel 1GbE BEASE-T for PCIe				
PLAN CP 4x1Gbit Cu Intel I350-T4 FH	4x	Intel, 1GTx4port	S26361-F4610-E4	S26361-F4610-L504
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	4x		S26361-F4610-E204	
max. 4x adapters per system				

Broadcom 10GbE BEASE-T for PCIe				
Dual speed support, auto-sense: supports 10Gbps and 1Gbps line rate per-port.				
PLAN EP P210TP 2X 10GBASE-T PCIe FH	2x	2 port NIC, Broadcom P210TP	PYBLA3K2	PY-LA3K2
PLAN EP P210TP 2X 10GBASE-T PCIe LP	4x		PYBLA3K2L	
max. 4x adapters per server system				

Intel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2X 10GBASE-T FH	4x	Intel, 10GTx2port	PYBLA342	PY-LA342
PLAN EP X710-T2L 2X 10GBASE-T LP	4x		PYBLA342L	
PLAN EP X710-T4L 4X 10GBASE-T FH	4x	Intel, 10GTx4port	PYBLA344	PY-LA344
PLAN EP X710-T4L 4X 10GBASE-T LP	4x		PYBLA344L	
max. 4x adapters per system				

Broadcom 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. **All ports on this card can install the same Parts Number of optical module.**				
PLAN EP P210P 2x10Gb SFP PCIe FH	2x	Broadcom, 10Gx2port	PYBLA3J2	PY-LA3J2
PLAN EP P210P 2x10Gb SFP PCIe LP	4x		PYBLA3J2L	
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G/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. 4x adapters per server system				

Intel 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. **All ports on this card can install the same Parts Number of optical module.**				
PLAN EP X710-DA2 2x10Gb SFP+ FH	4x	Intel, 10Gx2port	S26361-F3640-E2	S26361-F3640-L502
PLAN EP X710-DA2 2x10Gb SFP+ LP	4x		S26361-F3640-E202	
PLAN EP X710-DA4 4x10Gb SFP+ FH	4x	Intel, 10Gx4port	S26361-F3640-E4	S26361-F3640-L504
PLAN EP X710-DA4 4x10Gb SFP+ LP	4x		S26361-F3640-E204	
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G/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. 4x adapters per system				

Broadcom 25GbE for PCIe					
Each cage consumes 1x optical SFP28. **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 EP P225P 25Gb 2p SFP28 PCIe FH	4x	Broadcom, 25Gx2port	PYBLA3H2	PY-LA3H2	Will be available from 4Q,CY2023
PLAN EP P225P 25Gb 2p SFP28 PCIe LP	6x		PYBLA3H2L		Will be available from 4Q,CY2023
Optional, 25Gb SFP28 optical transceiver module, select one per cage					
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					
Optional, 10Gb SFP+ optical transceiver module, select one per cage					
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5	
SFP+ Optical Transceiver 10G/1G Dual Rate	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6	
max. 1x per port					
max. 6x adapters per system					
NVIDIA 25GbE for PCIe					
Each cage consumes 1x optical SFP28. **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.**					
Ethernet Network Adapters					
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe FH	4x	NVIDIA, 25Gx2port	PYBLA4024	PY-LA4024	Will be available from 4Q,CY2023
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	6x		PYBLA402L4		Will be available from 4Q,CY2023
Optional, 25Gb SFP28 optical transceiver module, select one per cage					
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					
Optional, 10Gb SFP+ optical transceiver module, select one per cage					
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5	
SFP+ Optical Transceiver 10G/1G Dual Rate	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6	
max. 1x per port					
max. 6x adapters per system					
Intel 25GbE for PCIe					
Each cage consumes 1x optical SFP28. **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 EP E810-XXVDA2 2X 25G SFP28 FH	4x	Intel, 25Gx2port	PYBLA402	PY-LA402	
PLAN EP E810-XXVDA2 2X 25G SFP28 LP	6x		PYBLA402L		
PLAN EP E810-XXVDA4 4X 25G SFP28 LP	6x	Intel, 25Gx4port	PYBLA404L	PY-LA404	
Optional, 25Gb SFP28 optical transceiver module, select one per cage					
SFP28 25G SR E25GSFP28SRX LC	4x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56	
SFP28 25G LR E25GSFP28LRX LC	4x	Intel, 25G LR SFP28	PYBSFPL09	PY-SFPL09	
max. 1x per port					
Optional, 10Gb SFP+ optical transceiver module, select one per cage					
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	
max. 1x per port					
max. 6x adapters per server system					
Broadcom 100GbE for PCIe					
Each cage consumes 1x optical QSFP28 **All ports on this card can install the same Parts Number of optical module.**					
PLAN EP P2100G 100Gb 2p QSFP56 PCIe LP	6x	Broadcom, 100Gx2port	PYBLA442L	PY-LA442	Will be available from 4Q,CY2023
Optional, 100Gb QSFP28 Optical Transceiver module					
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	
max. 1x per port					
max. 6x adapters per system					
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. **All ports on this card need to install the same Parts Number of optical module.**					
PLAN EP E810-CQDA2 2X 100G QSFP28 LP	6x	Intel, 100Gx2port	PYBLA432L	PY-LA432	
Optional, 100Gb QSFP28 Optical Transceiver module					
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	
max. 1x per port					
max. 6x 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. **All ports on this card need to install the same Parts Number of optical module.**					
PLAN EP MCX6-DX 2X 100G QSFP28 LP	6x	NVIDIA, 100Gx2port ***cannot be selected with IB.**	PYBLA412L	PY-LA412	
Optional, 100Gb QSFP28 Optical Transceiver module					
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	
max. 1x per port					
max. 6x adapters per server system					

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Chapter 12 - Fibre Channel Controller

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64G Fibre Channel adapters with LC interface for 50µm optical cables (OM4 or OM3)					
PFC EP LPe36000 1X 64GFC PCIe v4	4x	Broadcom, 64GFCx1port	PYBFC441	PY-FC441	Will be available from 3Q,CY2023
PFC EP LPe36000 1X 64GFC PCIe v4 LP	6x		PYBFC441L		Will be available from 3Q,CY2023
PFC EP LPe36002 2X 64GFC PCIe v4	4x	Broadcom, 64GFCx2port	PYBFC442	PY-FC442	Will be available from 3Q,CY2023
PFC EP LPe36002 2X 64GFC PCIe v4 LP	6x		PYBFC442L		Will be available from 3Q,CY2023
PFC EP QLE2870 1X 32GFC PCIe v4	4x	Marvell, 64GFCx1port	PYBFC431	PY-FC431	
PFC EP QLE2870 1X 32GFC PCIe v4 LP	6x		PYBFC431L		
PFC EP QLE2872 2X 32GFC PCIe v4	4x	Marvell, 64GFCx2port	PYBFC432	PY-FC432	
PFC EP QLE2872 2X 32GFC PCIe v4 LP	6x		PYBFC432L		
32G Fibre Channel adapters with LC interface for 50µm optical cables (OM4 or OM3)					
PFC EP LPe35000 1X 32GFC PCIe v4	4x	Broadcom, 32GFCx1port	PYBFC421	PY-FC421	
PFC EP LPe35000 1X 32GFC PCIe v4 LP	6x		PYBFC421L		
PFC EP LPe35002 2X 32GFC PCIe v4	4x	Broadcom, 32GFCx2port	PYBFC422	PY-FC422	
PFC EP LPe35002 2X 32GFC PCIe v4 LP	6x		PYBFC422L		
PFC EP QLE2770 1X 32GFC PCIe v4	4x	Marvell, 32GFCx1port	PYBFC411	PY-FC411	Will be available from 3Q,CY2023
PFC EP QLE2770 1X 32GFC PCIe v4 LP	6x		PYBFC411L		Will be available from 3Q,CY2023
PFC EP QLE2772 2X 32GFC PCIe v4	4x	Marvell, 32GFCx2port	PYBFC412	PY-FC412	Will be available from 3Q,CY2023
PFC EP QLE2772 2X 32GFC PCIe v4 LP	6x		PYBFC412L		Will be available from 3Q,CY2023
16Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)					
PFC EP LPe31000 1x 16Gb FH	4x	Broadcom, 16GFCx1port	S26361-F5596-E1	S26361-F5596-L501	
PFC EP LPe31000 1x 16Gb LP	6x		S26361-F5596-E201		
PFC EP LPe31002 2x 16Gb FH	4x	Broadcom, 16GFCx2port	S26361-F5596-E2	S26361-F5596-L502	
PFC EP LPe31002 2x 16Gb LP	6x		S26361-F5596-E202		
PFC EP QLE2690 1x 16Gb FH	4x	Marvell, 16GFCx1port	S26361-F5580-E1	S26361-F5580-L501	
PFC EP QLE2690 1x 16Gb LP	6x		S26361-F5580-E201		
PFC EP QLE2692 2x 16Gb FH	4x	Marvell, 16GFCx2port	S26361-F5580-E2	S26361-F5580-L502	
PFC EP QLE2692 2x 16Gb LP	6x		S26361-F5580-E202		
max. 7 Controller per system (mixed configurations are supported)					

Chapter 13 - Infiniband Controllers

S26361-F5756-L102 **S26361-F5756-E102**	**PY-HC402** **PYBHC402**	**PY-HC541** **PYBHC541**	**PY-HC521** **PYBHC521**
IB HCA 200Gb 1channel HDR	IB HCA 200Gb 2channel HDR	IB HCA 400Gb 1channel NDR	IB HCA 200Gb 1channel NDR200
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-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U] **AOC cannot besupported	200GBit 2channel Infiniband Controller HDR technology (8.0GT/s) *cannot be selected with PLAN EP MCX4-LX 25Gb[S26361-F4054-L502/S26361-F4054-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U] **AOC cannot besupported	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-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U] **AOC cannot besupported	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-E2/S26361-F4054-E202]/PLAN EP MCX6-DX 2X 100G[PY-LA412/PYBLA412/PYBLA412L]/PLAN EP MCX4-LX 25Gb OCPv3[PY-LA3F2U/PYBLA3F2U]/PLAN EP MCX6-DX 2X 100G OCPv3[PY-LA412U/PYBLA412U] **AOC cannot besupported
1x Q-SFP+ connector	2x Q-SFP+ connector	1x O-SFP connector	1x O-SFP+ connector
PCIe Gen4 x16 LP Card, 170mm	PCIe Gen4 x16 LP Card, 170mm	PCIe Gen5 x16 LP Card, 170mm	PCIe Gen5 x16 LP Card, 170mm
max. 4x per system	max. 4x per system	max. 4x per system	max. 4x per system

For loose delivery and in Rack customizing

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

Network Components, Controller and cables for later upgrade

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Chapter 9 - backup drives

RX2540 M7 offers 1.6” bay for accessible drive for basic units with 16x 2.5" HDD only!

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Config with min. 1x free 1.6" bay

S26361-F5789-E1 **S26361-F5789-L1**
LTO 8 tape drive (w/o tape)
LTO8, 12TB, 300MB/s, SAS 2.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

PYBLT911 **PY-LT911**
LTO 9 tape drive (w/o tape)
LTO9, 18TB, 300MB/s, SAS 3.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

S26361-F5606-E1 **S26361-F5606-L1**
LTO 7 tape drive (w/o tape)
LTO7, 6TB, 300MB/s, SAS 2.0, incl. cleaning cartridge & cable.
occupies 1.6 * 5.25", black bezel
max. 1x per system

PYBSC4FA2L **PY-SC4FA**
PSAS CP600i LP for LTO
SAS HBA Controller
requires 1x LP PCIe 4.0 x8
max. 1x per system for LTO drives

PYBSC4MA3L available from 2023/09 **PY-SC4MA1**
PSAS CP 2200-16i LP for LTO
SAS HBA Controller
requires 1x LP PCIe 4.0 x8
max. 1x per system for LTO drives

S26361-F3750-E4 **S26361-F3750-L4**
RDX Drive cage (w/o cartriges)
RDX Drive cage for various RDX cartridges (cartr. not included)
connected to USB3.0 onboard
1.6 * 5.25", black bezel
max. 1x per system

Cartridge	Order Code
RDX Cartridge 500GB	**S26361-F3857-L500**
RDX Cartridge 1TB	**S26361-F3857-L600**
RDX Cartridge 2TB	**S26361-F3857-L700**
RDX Cartridge 4TB	**S26361-F3857-L900**

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Chapter 10 - storage drives

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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

available in CQ3'23

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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
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 FIPS	PYBSS80NGG	PY-SS80NGG
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED FIPS	PYBSS16NGG	PY-SS16NGG

max. 30x - depending on base unit & configuration

SED : will be available in October for APAC region

SSD SAS 2.5" Write Intensive (SFF) Enterprise with 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	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. 30x - depending on base unit & configuration

available in CQ3'23

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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
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. 30x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with 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	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. 30x - depending on base unit & configuration

available in CQ3'23

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

based on **Kioxia PM7** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
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 FIPS	**PYBSS76NNN**	**PY-SS76NNN**
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED FIPS	**PYBSS15NNM**	**PY-SS15NNM**

max. 30x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with 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	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. 30x - depending on base unit & configuration

max. 30x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

based on **Samsung PM897** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**PYBSS48NKQ**	**PY-SS48NKQ**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**PYBSS96NKQ**	**PY-SS96NKQ**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**PYBSS19NKQ**	**PY-SS19NKQ**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		**PYBSS38NKQ**	**PY-SS38NKQ**

max. 30x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with 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-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. 30x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

based on **Samsung PM893** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS24NMD**	**PY-SS24NMD**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS48NMD**	**PY-SS48NMD**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS96NMD**	**PY-SS96NMD**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS19NMD**	**PY-SS19NMD**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS38NMD**	**PY-SS38NMD**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBSS76NMD**	**PY-SS76NMD**

max. 30x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with 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-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. 30x - depending on base unit & configuration

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2.5" (SFF) Hard drives

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. 30x - depending on base unit & configuration

SED : will be available in October for APAC region

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	SED	**PYBSH301EU**	**PY-SH301EU**
600GB	10 000	SAS 12Gb/s	512n	SED	**PYBSH601EU**	**PY-SH601EU**
1.2TB	10 000	SAS 12Gb/s	512n	SED	**PYBSH121EU**	**PY-SH121EU**

max. 30x - depending on base unit & configuration

SED : will be available in October for APAC region

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	SED	**PYBSH181DU**	**PY-SH181DU**
2.4TB	10 000	SAS 12Gb/s	512e	SED	**S26361-F5582-E124**	**S26361-F5582-L124**

max. 30x - depending on base unit & configuration

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. 30x - depending on base unit & configuration

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**
2TB	7 200	SATA 6Gb/s	512n		**S26361-F3956-E200**	**S26361-F3956-L200**

max. 30x - depending on base unit & configuration

3.5" (LFF) SAS and SATA SSD

available in CQ3'23

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. 12x - depending on base unit & 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. 12x - depending on base unit & configuration

available in CQ3'23

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. 12x - depending on base unit & 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. 12x - depending on base unit & configuration

available in CQ3'23

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 FIPS	**PYBTS76NNK**	**PY-TS76NNK**
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED FIPS	**PYBTS15NN2**	**PY-TS15NN2**

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

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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. 12x - 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. 12x - depending on base unit & configuration

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

based on **Samsung PM893** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS24NM9**	**PY-TS24NM9**
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS48NM9**	**PY-TS48NM9**
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS96NM9**	**PY-TS96NM9**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS19NM9**	**PY-TS19NM9**
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS38NM9**	**PY-TS38NM9**
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0		**PYBTS76NM9**	**PY-TS76NM9**

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

3.5" (LFF) Hard drives

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. 12x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5728-E130**	**S26361-F5728-L130**
600GB	10 000	SAS 12Gb/s	512n		**S26361-F5728-E160**	**S26361-F5728-L160**
1.2TB	10 000	SAS 12Gb/s	512n		**S26361-F5728-E112**	**S26361-F5728-L112**
max. 12x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1.8TB	10 000	SAS 12Gb/s	512e		**S26361-F5731-E118**	**S26361-F5731-L118**
2.4TB	10 000	SAS 12Gb/s	512e		**S26361-F5569-E124**	**S26361-F5569-L124**
max. 12x - depending on base unit & configuration						

SED : will be available in October for APAC region

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	available in CQ4' 2023	**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**
20TB	7 200	SAS 12Gb/s	512e	FIPS available in CQ4' 2023	**PYBCHLT7BS**	**PY-CHLT7BS**
max. 12x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SATA 6Gb/s	512n		**PYBBH1T7B9**	**PY-BH1T7B9**
2TB	7 200	SATA 6Gb/s	512n		**PYBBH2T7B9**	**PY-BH2T7B9**
4TB	7 200	SATA 6Gb/s	512n		**PYBBH4T7B9**	**PY-BH4T7B9**
max. 12x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
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. 12x - depending on base unit & configuration						

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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
PYBPREM02
PY-PREM02
provides two M.2 Connectors
max 1x for system
No mixed with PDUAL CP100 and CP300

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

based on **Micron 5300/5400 PRO** drives

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

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

Dual M.2

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

PDUAL CP300, dual M.2 for booting, non hot-plug available from 2023/11

Capacity	*Formfactor*	*Interface*		*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) or
SSD PCIe M.2 480GB/960GB. (PY*BS48PEA/PY*BS96PEA)
max. 1x per Server, requires 2x SSD M.2 drives.

2.5" (SFF) PCIe-SSD

hot plug support : supported with VMD

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

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		**PYBBS40PF**	**PY-BS40PF**
800GB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		**PYBBS80PF**	**PY-BS80PF**
1.6TB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100		**PYBBS16PF**	**PY-BS16PF**

max. 30x - depending on base unit & configuration

will be available in October

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. 30x - depending on base unit & configuration, not allow for PYR2547RAN

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. 30x – depending on base unit & configuration, not allow for PYR2547RAN

will be available in October

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. 30x – depending on base unit & configuration, not allow for PYR2547RAN

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. 30x – depending on base unit & configuration, not allow for PYR2547RAN

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

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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, Not support ATD40/45	**PYBPU501**	**PY-PU501**
500W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V, Not support ATD40/45	**PYBPU503**	**PY-PU503**
900W platinum PSU	94% eff.	Connector type: C13, APAC/JAPAN region only	**PYBPU902**	**PY-PU902**
900W titanium PSU	96% eff.	Connector type: C13, nom. 220-240V, max. 180-264V	**PYBPU901**	**PY-PU901**
1600W platinum PSU	94% eff.	Connector type: C13, 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			**PYBDMP03**	

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**
no power cord	**T26139-Y3850-E10**	

Region Kits, 1x per System		
Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian and Welsh language need to be included always into the order from EU and EFTA (Sales region for EMEIA only)	**S26361-F1452-E140**	
Region Kit APAC/EMEA/India, Contains warranty sheet and safety instructions for APAC, EMEA and India	**S26361-F1452-E100**	
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	**S26361-F1452-E130**	
Region Kit China for CCC systems, Contains warranty sheet and safety instructions for China, need to be included always into the order from China country (Sales region for APAC only)	**S26361-F1452-E101**	

Certifications, Made in Germany Sticker, 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

USB Optical Disc Drive	
External Ultra Slim Portable DVD Writer (Hitachi-LG)	**S26341-F103-L142**

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Chapter 16 - Energy Star

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will be expired after 2024-1-11	will be expired after 2024-1-11	will be effective after 2024-1-2	will be effective after 2024-1-2
S26361-F3301-E541	**S26361-F3301-E542**	**TBD**	**TBD**
RX2540 Mx E-Star Fam1	RX2540 Mx E-Star Fam2	RX2540 Mx E-Star Fam1	RX2540 Mx E-Star Fam2
Limits configuration in accordance with Energy Star requirements for systems with 1 CPU	Limits configuration in accordance with Energy Star requirements for systems with 2 CPU	Limits configuration in accordance with Energy Star requirements for systems with 1 CPU	Limits configuration in accordance with Energy Star requirements for systems with 2 CPU
max. 1x per system	max. 1x per system	max. 1x per system	max. 1x per system
1 CPU Variant not allowed are: limitations for E-Star Fam1 certification - 2 CPU configuration - CPU Xeon Bronze 3408U - 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)	2 CPU Variant not allowed are: limitations for E-Star Fam2 certification - 1 CPU configuration - CPU Xeon Bronze 3408U - 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)	1 CPU Variant not allowed are: limitations for E-Star Fam1 certification - 2 CPU configuration - CPU Xeon Bronze 3408U - CPU Xeon Silver 4410Y - CPU Xeon Silver 4410T - more than 12 HDD/SSD/M.2 when PCIe slot is inserted by add-in card for CPU Xeon Silver 4416+ - CPU Xeon Gold 5415+ - Add-in card (internal RAID slot is ok) for CPU Xeon Gold 5416S - CPU Xeon Gold 6434 - 900W platinum PSU - 1600W platinum PSU - 2200W platinum PSU	2 CPU Variant not allowed are: limitations for E-Star Fam2 certification - 1 CPU configuration - CPU Xeon Bronze 3408U - CPU Xeon Silver 4410Y - CPU Xeon Silver 4410T - CPU Xeon Gold 5415+ - Add-in card (internal RAID slot is ok) for CPU Xeon Gold 5416S - CPU Xeon Gold 6434 - 900W platinum PSU - 1600W platinum PSU - 2200W platinum PSU

ENERGY STAR-configurations with one CPU will be labeled: PRIMERGY RX2540 M7 E-Star Fam1
ENERGY STAR-configurations with two CPU will be labeled: PRIMERGY RX2540 M7 E-Star Fam2
non ENERGY STAR-configurationen will be labeled: PRIMERGY RX2540 M7

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Chapter 17 - ErP Lot 9 restriction

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*Region kit Europe must be orderd for shipment to ship in EU and EFTA

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

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

Restriction for Erp Lot9 directive,

Not allowed: (For all base unit)
- 500W platinum PSU
- 900W platinum PSU
- 1600W platinum PSU
- 2200W platinum PSU

need to select one of PYBETL25 or PYBETL26

ErP Lot9 Restriction for 16GB DIMM, 1x per System	
For 2.5" base unit only **2.5" base unit: PYR2547R2N, PYR2547RBN, PYR2547RCN, PYR2547RDN, PYR2547RFN, PYR2547RGN, PYR2547RHN, PYR2547RJN, PYR2547RKN**	
Erp Lot9 configuration 1	**PYBETL25**

Restriction for ErP Lot 9 directive,
* this option is NOT avaialble for all 3.5" base unit.
* this option is NOT avaialble for 2.5" base unit (PYR2547REN)

(For 2.5" base unit: PYR2547R2N, PYR2547RBN, PYR2547RCN, PYR2547RDN, PYR2547RFN, PYR2547RGN, PYR2547RHN, PYR2547RJN,PYR2547RKN)
Not allowed:
- CPU: Bronze 3408U (PYBCP65XR)

(For PYR2547R2N)
Not allowed:
- 2nd RAID card for front HDD/SSD (PYBCBS092)

ErP Lot9 Restriction for >=32GB DIMM, 1x per System	
For all 3.5", 2.5" base unit **3.5" base unti: PYR2547R3N, PYR2547RAN, PYR2547RLN** **2.5" base unit: PYR2547R2N, PYR2547RBN, PYR2547RCN, PYR2547RDN, PYR2547REN, PYR2547RFN, PYR2547RGN, PYR2547RHN, PYR2547RJN, PYR2547RKN**	
ErP Lot 9 configuration 2	**PYBETL26**

Restriction for ErP Lot 9 directive,

(For all base unit:
3.5": PYR2547R3N, PYR2547RAN, PYR2547RLN
2.5": PYR2547R2N, PYR2547RBN, PYR2547RCN, PYR2547RDN,
PYR2547REN, PYR2547RFN, PYR2547RGN, PYR2547RHN,
PYR2547RJN, PYR2547RKN)
Not allowed:
- CPU: Bronze 3408U (PYBCP65XR)
- DIMM: 16GB DIMM (PYBME16SL)

(For all 3.5" base unit: PYR2547R3N, PYR2547RAN, PYR2547RLN)
Not allowed:
- NVIDIA T400 (PYBVG4T2L)
- 1CPU configuration (2nd CPU Kit: S26361-F3849-E100 is

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Chapter 18 - Thermal Rule

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For CPU group, refere to Chapter3- CPU

3.5" base unit (not including Nvidia A2/L4, high Level PCIe card, high Tier OCP, Rear Bay)

CPU		Memory Type	Front drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	10x3.5"	12x3.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 7-10** Rear: 0	Front: 0-6 7-12** Rear: 0	0	Level1-4	Level1-4	Tier1-8	35C
	CPU B								
	CPU C								
	CPU A	16GB - 256GB	Front: 0-6 7-10** Rear: 0	Front: 0-6 7-12** Rear: 0	0	Level1-5	Level1-5	Tier1-9	30C *
	CPU B								
	CPU C								
	CPU D					Level1-4	Level1-4	Tier1-8	
	CPU E	Not support							

* Need to select Configuration Thermal Design 30℃(PYBETA1)
** Need to select Configuration Thermal Design 3.5"HDD(PYBETA2) for more than 6 drives.

3.5" base unit (including Nvidia A2/L4, high Level PCIe Card, high Tier OCP card)

CPU		Memory Type	Front drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	10x3.5"	12x3.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 Rear: 0	Front: 0-6 Rear: 0	1-6	Level1-7	Level1-8	Tier1-10	30C *
	CPU B								
	CPU C					Level1-6	Level1-7	Tier 1-10	
	CPU D								25C**
	CPU E								

* Need to select Configuration Thermal Design 30℃(PYBETA1)

** For CPU D, Need Special Release request and to select Configuration Thermal Design 25℃(PYBET21)

Update 3.5" base unit (including Rear bay *)**

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	12x3.5"			LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 7-12** Rear : 1-6		0	Level1-4	Level1-4	Tier1-8	30C *
	CPU B								
	CPU C								
	CPU D	Not support							
	CPU E								

* Need to select Configuration Thermal Design 30℃(PYBETA1)
** Need to select Configuration Thermal Design 3.5"HDD(PYBETA2) for more than 6 drives.
*** Not allow Kioxia PCIe SSD
PYBBS16PD6/PYBBS32PD6/PYBBS64PD6/PYBBS12PD6/PYBBS96PE6/PYBBS19PE6/PYBBS38PE6/PYBBS76PE6/PYBBS15PE6

Update 3.5" base unit (including KIOXIA NVME SSD Rear bay *)**

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	12x3.5"			LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 7-12**		0	Level1-4	Level1-4	Tier1-8	30C *
	CPU B								25C ****
	CPU C	Not support							
	CPU D								
	CPU E								

* Need to select Cooling kit 1U EVAC heatsink and air duct for CPU A(PYBTKCPCA2)
** Need to select Configuration Thermal Design 3.5"HDD(PYBETA2) for more than 6 drives.
*** can allow Kioxia PCIe SSD
PYBBS16PD6/PYBBS32PD6/PYBBS64PD6/PYBBS12PD6/PYBBS96PE6/PYBBS19PE6/PYBBS38PE6/PYBBS76PE6/PYBBS15PE6
**** Need to select Cooling kit 1U EVAC heatsink and air duct for CPU B(PYBTKCPCA3)

3.5" base unit (ATD40)

CPU		Memory Type	Front drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	10x3.5"	12x3.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 Rear: 0	Front: 0-6 Rear: 0	0	Level1-3	Level1-3	Tier1-7	40C
	CPU B								
	CPU C								
	CPU D	Not support							
	CPU E								

3.5" base unit (ATD45)

CPU		Memory Type	Front drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	10x3.5"	12x3.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 Rear: 0	Front: 0-6 Rear: 0	0	Level1-2	Level1-2	Tier1-6	45C
	CPU B								
	CPU C								
	CPU D	Not support							
	CPU D								

2.5" base unit (not including Nvidia A2/L4, Rear drive bay)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:0	Front: 0-24 Rear:0	0	Level1-6	Level1- 7	Tier1-12	35C
	CPU B								
	CPU C								
	CPU D								
	CPU E								
	CPU A	16GB - 256GB	Front: 0-16 Rear:0	Front: 0-24 Rear:0	0	Level1-7	Level1-8	Tier1-12	30C *
	CPU B								
	CPU C								
	CPU D								
	CPU E								

* Need to select Configuration Thermal Design 30℃(PYBETA1)

2.5" base unit (including Nvidia A2/L4)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:0	Front: 0-24 Rear:0	1-6	Level1-6	Level1-7	Tier1-10	30C *
	CPU B								
	CPU C								
	CPU D								25C **
	CPU E	Not Support							

* Need to select Configuration Thermal Design 30℃(PYBETA1)

** For CPU D, Need Special Release request and to select Configuration Thermal Design 25°C(PYBET21)

2.5" base unit(including Rear drive bay)**

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:1-6	Front: 0-24 Rear:1-6	0	Level1-6	Level1-6	Tier1-12 **, ***	30C *
	CPU B								
	CPU C								
	CPU D								
	CPU E **, ***								

* Need to select Configuration Thermal Design 30℃(PYBETA1)

** For PYR2547R2N/PYR2547REN/PYR2547RFN/PYR2547RGN
Kioxia PCIe SSD not allow CPU E and Tier12 OCP cards.
(PYBBS16PD6/PYBBS32PD6/PYBBS64PD6/PYBBS12PD6/PYBBS96PE6/PYBBS19PE6/PYBBS38PE6/PYBBS76PE6/PYBBS15PE6)

*** For PYR2547RHN
Rear bay not allow CPU E and Tier12 OCP cards.

2.5" base unit(including Kioxia SSD Rear drive bay)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:1-6	Front: 0-24 Rear:1-6	0	Level1-6	Level1-6	Tier1-11	30C *
	CPU B								
	CPU C								
	CPU D								
	CPU E	Not support							

* Need to select Configuration Thermal Design 30℃(PYBETA1)

2.5" base unit (ATD40)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:0	Front: 0-24 Rear:0	0	Level1-5	Level1-5	Tier1-9	40C
	CPU B								
	CPU C								
	CPU D								
	CPU E	Not support							

2.5" base unit (ATD45)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-16 Rear:0	Front: 0-24 Rear:0	0	Level1-4	Level1-4	Tier1-8	45C
	CPU B								
	CPU C								
	CPU D	Not support							
	CPU E								

2.5"/3.5" base unit for Graphics

CPU		Memory Type	Front drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	6x3.5"	8x/16x2.5"		LP PCIe	FH PCIe	OCP	Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6 Rear: 0	Front: 0-16 Rear: 0	0	Level1-6	**	Tier1-9	30C *
	CPU B								
	CPU C								
	CPU A	16GB - 256GB	Front: 0-6 Rear: 0	Front: 0-16 Rear: 0	0	Level1-7	**	Tier1-10	25C ***
	CPU B								
	CPU C								
	CPU D					Level1-6		Tier1-9	
	CPU E	Not support							

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

** Only GFX/GPU cards are supported

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

Option card: PCIe Level for Thermal condition

Card		Product Number		PCIe Level
		FH	LP	
RAID/SAS	PDUAL CP100		PYBDMCP24L	Level4
	PRAID CP500i RAID Contr.		PYBSR3FBL	Level3
	PRAID EP520i RAID Contr. LP		S26361-F4042-E202	Level4
	PRAID EP540i RAID LP		S26361-F4042-E214	Level4
	PRAID EP580i RAID LP		S26361-F4042-E208	Level4
	PSAS CP600e FH / LP	PYBSC4FAE	PYBSC4FAEL	Level3
	PSAS CP600i LP		PYBSC4FAL	Level3
	PSAS CP600i LP for LTO		PYBSC4FA2L	Level3
	PRAID CP600i LP		PYBSR4FAL	Level3
	PRAID EP640i LP		PYBSR4C63L	Level3
	PRAID EP680i LP / NVMe LP		PYBSR4C6L / PYBSR4C62L	Level3
	PRAID EP680e RAID Contr. FH/LP	PYBSR4C6E	PYBSR4C6EL	Level3
	PSAS CP2100-8i LP		PYBSC3MA2L / PYBSC3MAWL	Level3
	PSAS CP2200-16i LP / NVMe LP		PYBSC4MA1L / PYBSC4MA2L	Level4
	PSAS CP2200-16i for LTO		PYBSC4MA3L	Level4
	PRAID EP3252-8i LP		PYBSR4MA1L	Level4
	PRAID EP3254-8i LP		PYBSR4MA2L	Level4
	PRAID EP3258-16i LP / NVMe LP		PYBSR4MA3L / PYBSR4MA4L	Level4
	PRAID EP740i LP / NVMe LP		(TBD)	Level4
	PRAID EP781i FH High Performance		(TBD)	Level4
FC	PFC EP LPe31000 1x 16Gb FH / LP	S26361-F5596-E1	S26361-F5596-E201	Level3
	PFC EP LPe31002 2x 16Gb FH / LP	S26361-F5596-E2	S26361-F5596-E202	Level3
	PFC EP LPe35000 1X 32GFC PCIe v4 / LP	PYBFC421	PYBFC421L	Level4
	PFC EP LPe35002 2X 32GFC PCIe v4 / LP	PYBFC422	PYBFC422L	Level4
	PFC EP LPe36000 1X 64GFC PCIe v4 / LP	PYBFC441	PYBFC441L	Level4
	PFC EP LPe36002 2X 64GFC PCIe v4 / LP	PYBFC442	PYBFC442L	Level4
	PFC EP QLE2690 1x 16Gb FH / LP	S26361-F5580-E1	S26361-F5580-E201	Level3
	PFC EP QLE2692 2x 16Gb FH / LP	S26361-F5580-E2	S26361-F5580-E202	Level3
	PFC EP QLE2770 1X 32GFC PCIe v4 / LP	PYBFC411	PYBFC411L	Level4
	PFC EP QLE2772 2X 32GFC PCIe v4 / LP	PYBFC412	PYBFC412L	Level4
	PFC EP QLE2870 1X 32GFC PCIe v4 / LP	PYBFC431	PYBFC431L	Level4
	PFC EP QLE2872 2X 32GFC PCIe v4 / LP	PYBFC432	PYBFC432L	Level4
IB	PIB EP 200Gb 1 port HDR ConnectX-6		S26361-F5756-E102	Level6
	PIB EP 200Gb 2 port HDR ConnectX-6		PYBHC402	Level7
	1 port 200Gb infiniband NDR200 (ConnectX-7)		PYBHC521	Level7
	1 port 400Gb infiniband NDR (ConnectX-7)		PYBHC541	Level7
LAN	PLAN CP 4x1Gbit Cu Intel I350-T4 FH / LP	S26361-F4610-E4	S26361-F4610-E204	Level1
	PLAN EP E810-CQDA2 2X 100G QSFP28 LP		PYBLA432L	Level7
	PLAN EP E810-XXVDA2 2X 25G SFP28 FH / LP	PYBLA402	PYBLA402L	Level5
	PLAN EP E810-XXVDA4 4X 25G SFP28 LP		PYBLA404L	Level7
	PLAN EP MCX6-DX 100Gb 2p QSFP28 LP		PYBLA412L	Level7
	PLAN EP X710-DA2 2x10Gb SFP+ FH / LP	S26361-F3640-E2	S26361-F3640-E202	Level1
	PLAN EP X710-DA4 4x10Gb SFP+ FH / LP	S26361-F3640-E4	S26361-F3640-E204	Level3
	PLAN EP X710-T2L 2X 10GBASE-T FH / LP	PYBLA342	PYBLA342L	Level2
	PLAN EP X710-T4L 4X 10GBASE-T FH / LP	PYBLA344	PYBLA344L	Level3
	PLAN CP BCM5719-4P 4X 1000BASE-T PCIe FH / LP	PYBLA284	PYBLA284L	Level1
	PLAN EP P210P 2x10Gb SFP FH / LP	PYBLA3J2	PYBLA3J2L	Level3
	PLAN EP P210TP 2X 10GBASE-T PCIe FH / LP	PYBLA3K2	PYBLA3K2L	Level5
	PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe FH / LP	PYBLA4024	PYBLA402L4	Level5
	PLAN EP P225P 25Gb 2p SFP28 PCIe FH / LP	PYBLA3H2	PYBLA3H2L	Level3
	PLAN EP P2100G 100Gb 2p QSFP56 PCIe LP		PYBLA442L	Level5
GFX	PGRA CP NVIDIA T400 4GB LP		PYBVG4T2L	Level3

Option card: OCP Tier for Thermal condition

Card		Product Number	OCP Tier
OCPv3	PLAN CP I350-T4 4X 1000BASE-T OCPv3 PT	PYBLA274U	Tier1
	PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3 PT	PYBLA432U	Tier11
	PLAN EP E810-XXVDA2 2X 25G SFP28 OCPv3 PT	PYBLA402U	Tier8
	PLAN EP E810-XXVDA4 4X 25G SFP28 OCPv3 PT	PYBLA404U	Tier11
	PLAN EP MCX6-DX 100Gb 2p QSFP28 OCPv3 PT	PYBLA412U	Tier12
	PLAN EP X710-DA2 2X 10G SFP+ OCPv3 PT	PYBLA352U	Tier2
	PLAN EP X710-DA4 4X 10G SFP+ OCPv3 PT	PYBLA354U	Tier8
	PLAN EP X710-T2L 2X 10GBASE-T OCPv3 PT	PYBLA342U	Tier2
	PLAN EP X710-T4L 4X 10GBASE-T OCPv3 PT	PYBLA344U	Tier4
	PLAN CP N41T 4X 1000BASE-T OCPV3 PT	PYBLA284U	Tier2
	PLAN EP N210P 2X 10G SFP+ OCPV3 PT	PYBLA3J2U	Tier2
	PLAN EP N210TP 2X 10GBASE-T OCPV3 PT	PYBLA3K2U	Tier5
	PLAN EP MCX6-LX 25Gb 2p SFP28 OCPV3	PYBLA402U4	Tier6
	PLAN EP N225P 25Gb 2p SFP28 OCPv3	PYBLA3G2U	Tier3
	PLAN EP N2100G 100Gb 2p QSFP56 OCPv3	PYBLA452U	Tier8

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Chapter 19 - others

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PYBRMC44 **PY-RMC44**
iRMC advanced pack
integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

PYBLCM14 **embedded Lifecycle Management (eLCM)**
Server Online Update OS driver Update Hardware firmware update
Server Offline Update Hardware update via Update Manager Express
PrimeCollect Autonomous creation of Primecollect archives Creation and use of PrimeCollect archives over AIS connect
Custom Image (Jukebox function) Automatic and manual download of CD and DVD Images Automatic and manual start of CD and DVD Images
max. 1x per system

Loose delivery
eLCM Activation Pack (Node Locked License) **PY-LCM14**
options contains: **- Paper with TAN for Licensekey**

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

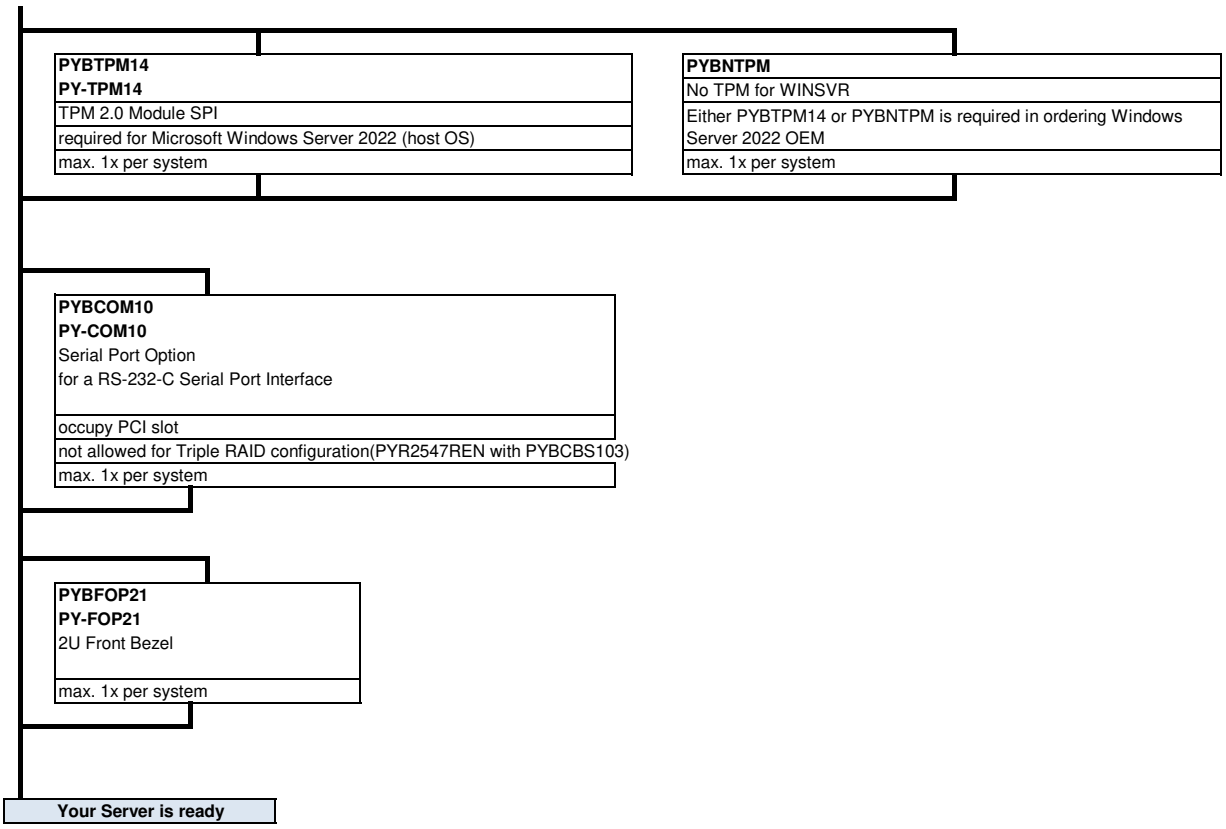
S26361-F3776-E440
Cool-safe ® Advanced Thermal design 40°C
enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

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

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

PYBET21
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. **Refer to Chapter15-Thermal Rule**
this setting can be activated ex factory only
max. 1x per system

PYBETA2
Configuration Thermal Design 3.5"HDD
Configuration Thermal Design 3.5"HDD is required for more than 6 front drives with 3.5" base unit. Refer to Thermal Rule
Only for EMEA/APAC region
max. 1x per system


PYBTPM14
PY-TPM14
TPM 2.0 Module SPI
required for Microsoft Windows Server 2022 (host OS)
max. 1x per system
PYBNTPM
No TPM for WINSVR
Either PYBTPM14 or PYBNTPM is required in ordering Windows Server 2022 OEM
max. 1x per system
PYBCOM10
PY-COM10
Serial Port Option
for a RS-232-C Serial Port Interface
occupy PCI slot
not allowed for Triple RAID configuration(PYR2547REN with PYBCBS103)
max. 1x per system
PYBFOP21
PY-FOP21
2U Front Bezel
max. 1x per system
Your Server is ready

Date of change	Configurator revision	Folder / order code / description	What has been changed / comment	Name
31.08.2023	1,44	base	Remove the limitation about KIOKIA NVMe from PYR2547RAN	S. Fujita
30.08.2023	1,43	GFX	NVIDIA Subscription License is EOL	M. Takoaka
24.08.2023	1,42	GFX	Update RTX 6000 sechedule	M. Takoaka
24.08.2023	1,41	Thermal Rule, LAN_FC_IB	Adding MCX6-LX and P(N)225P, P(N)2100G on Thermal Rule, Adding E810-XXVDA2 FH on LAN_FC_IB	F. Kanega
08.08.2023	1.40	base, RAID	updated availability schedule	T. Sudou
07.08.2023	1,39	Energy Star	Add ES 4.0	J. ZHAO
04.08.2023	1,38	CPU	added Gold 6434(PYBCP66X4/PY-CP66X4)	S. Fujita
02.08.2023	1.37	HDD_SSD	added PDUAL CP300 PYBDMCP35L, PY-DMCP35	T. Sudou
01.08.2023	1,36	GFX	Add new perGPU NVIDIA AI Enterprise Subscription License and Support to GFX sheet	J.Liu
01.08.2023	1.35	Thermal Rule	added 'Update 3.5" base unit (including KIOXIA NVME SSD Rear bay ***)'	S. Fujita
01.08.2023	1,35	CPU	added PYBTKCPCA2/PYBTKCPCA3	S. Fujita
31.07.2023	1,34	HDD_SSD	revised the order codes for Kioxia CM7 15.36TB	Y.Sugiyama
31.07.2023	1,33	HDD_SSD	added the PCIe-SSD "Kioxia CM7 series" updated availability schedule for SED drives	Y.Sugiyama
21.07.2023	1,32	base	Revice release date for PYR2547RFN	S. Fujita
21.07.2023	1,32	RAID	Add "PRAID CP500i / PRAID EP520i / PRAID EP540i / PRAID EP580i' into PY-CBS108	S. Fujita
07.07.2023	1,31	GFX	Change the riser card for L4/A2	M. Takoaka
20.07.2023	1,3	LAN_FC_IB	Adding Broadcom 25/100G cards. Adding NVIDIA 25G cards. Updating to latest condition	F. Kanega
12.07.2023	1.29	base, RAID	updated availability schedule	T. Sudou
07.07.2023	1,28	GFX	Add RTX 6000	M. Takoaka
04.07.2023	1,27	RAM	Add memory Mode for HBM CPUs	J. ZHAO
30.06.2023	1,26	others	No TPM for WINSVR added	K. Nishihara
23.06.2023	1.25	PSU	Added the restriction of ATD option to 500W PSU.	J.Sugiyama
22.06.2023	1.24	Thermal Rule LAN_FC_IB	changed level for PRAID CP500i, EP520i, EP540i, EP580i level accroding to updated information Revised "PFC EP LPe36000/36002 2X 32GFC PCIe v4 LP" to "PFC EP LPe36000/36002 2X 64GFC PCIe v4 LP"	J. ZHAO
21.06.2023	1.23	RAID, Thermal Rule	added PSAS CP 2100-8i for vSAN PYBSC3MAWL	T. Sudou
16.06.2023	1,22	LAN_FC_IB	Change max adapter number of Broadcom 10G, P210P/P210TP. Low profile can be 4 and max num in total is 4 as well.	F.Kanega
13.06.2023	1.21	RAM	add Memory less Mode option	J. ZHAO
12.06.2023	1.20	base	Corrected descritption of PYBPRE648	J.Sugiyama
09.06.2023	1,19	LAN_FC_IB	Change target date of X710-T4L OCPv3 from 2Q to 3Q	F. Kanega
07.06.2023	1.18	GFX	L4/L40/H100 was released	M.Takaoka
06.06.2023	1.17	base	updated availability schedule	T. Sudou
05.06.2023	1.16	RAID	added Intel VROC (SATA RAID) added Intel VROC Upgrade Key PYBRLVR02, PY-RLVR02 updated availability schedule	T. Sudou
02.06.2023	1,15	HDD_SSD	updated the availability schedules	Y. Sugiyama
22.05.2023	1,14	HDD_SSD	removed the BC-SATA 20TB due to release cancel	Y. Sugiyama
18.05.2023	1.13	LAN_FC_IB	Change max number of Broadcom 1/10G PCIe cards from 4 to 2 due to no test of T50 configuration. This will be returned	F.Kanega
18.05.2023	1.12	GFX	The schedule for L40 and L4 is the correct one. In July	T. Sasaki
17.05.2023	1.11	GFX	Modified A2 and L4.	T. Sasaki
16.05.2023	1.10	RAM	Revised mistake on population of "12 DIMMs for 1CPU"	J. ZHAO
15.05.2023	1.09	backup, HDD_SSD	updated availability schedule	T. Sudou
11.05.2023	1.08	Thermal Rule	added PRAID CP500i, EP520i, EP540i, EP580i to PCIe card thermal level table.	J. Sugiyama
11.05.2023	1.08	base	updated PYR2547RGN for the rear bay connection of 16ch controller .	J. Sugiyama
11.05.2023	1.07	base, RAID	added PRAID CP500i, EP520i, EP540i, EP580i updated availability schedule	T. Sudou

10.05.2023	1.06	CPU	updated MCC CPU avaialblity. (remove "will be avaialble in 2Q.2023") updated HBM CPU/8470N availablity. (add "will be avaialble in 3Q.2023"	A. Iwata
24.04.2023	1.05	base	updated the diagram of HBA/RAID controller connection.	J. Sugiyama
21.04.2023	1.04	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
19.04.2023	1.03	RAID, HDD_SSD	updated availability schedules	T. Sudou
06.04.2023	1.02	Cover/RAM	corrected wrong description	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	J. Sugiyama