PRIMERGY RX2540 M7
2U Rack Server

FUJITSU

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)

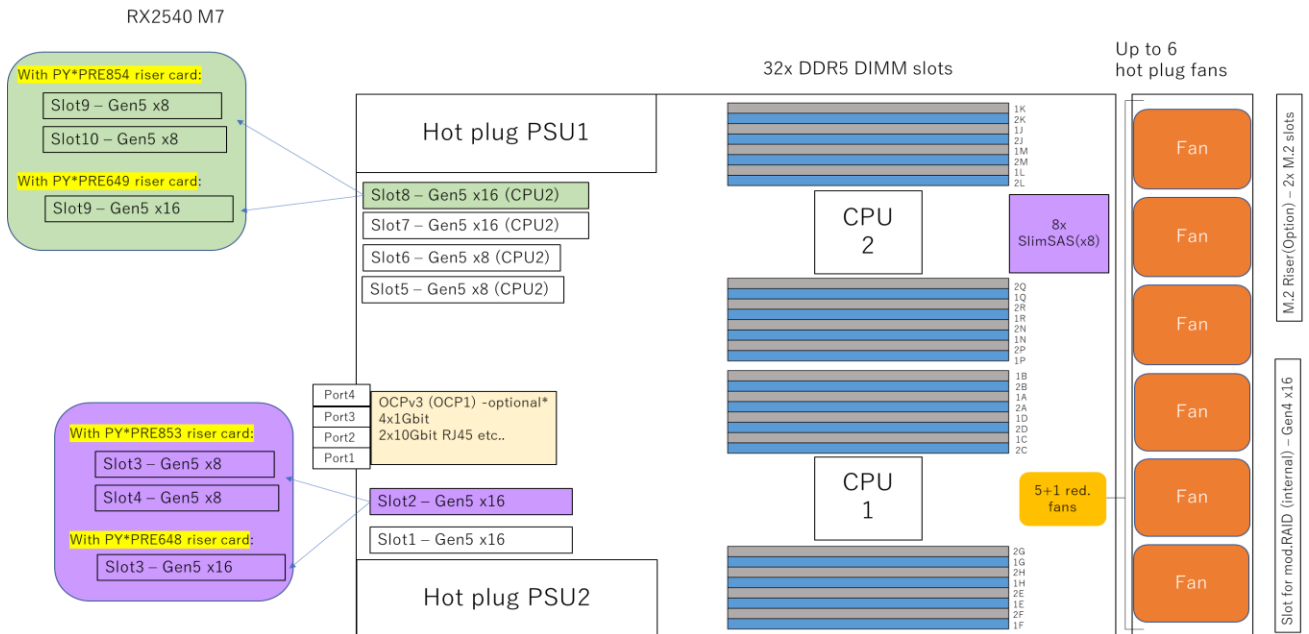https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx
(extranet)

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

System configurator and
order information guide

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

RX2540 M7

32x DDR5 DIMM slots

Up to 6 hot plug fans

With PY*PRE854 riser card:
- Slot9 – Gen5 x8
- Slot10 – Gen5 x8

With PY*PRE649 riser card:
- Slot9 – Gen5 x16

Hot plug PSU1

1K
2K
1J
2J
1M
2M
1L
2L

- Slot8 – Gen5 x16 (CPU2)
- Slot7 – Gen5 x16 (CPU2)
- Slot6 – Gen5 x8 (CPU2)
- Slot5 – Gen5 x8 (CPU2)

CPU 2

8x SlimSAS(x8)

2Q
1Q
2R
1R
2N
1N
2P
1P

1B
2B
1A
2A
1D
2D
1C
2C

Port4
Port3
Port2
Port1

OCPv3 (OCP1) -optional*
4x1Gbit
2x10Gbit RJ45 etc..

With PY*PRE853 riser card:
- Slot3 – Gen5 x8
- Slot4 – Gen5 x8

With PY*PRE648 riser card:
- Slot3 – Gen5 x16

- Slot2 – Gen5 x16
- Slot1 – Gen5 x16

CPU 1

5+1 red. fans

Hot plug PSU2

2G
1G
2H
1H
2E
1E
2F
1F

M.2 Riser(Option) – 2x M.2 slots

Slot for mod.RAID (internal) – Gen4 x16

Fan
Fan
Fan
Fan
Fan
Fan

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

PRIMERGY RX2540 M7 rear view with 2x PSU, 6x PCIe Slots and OCPv3
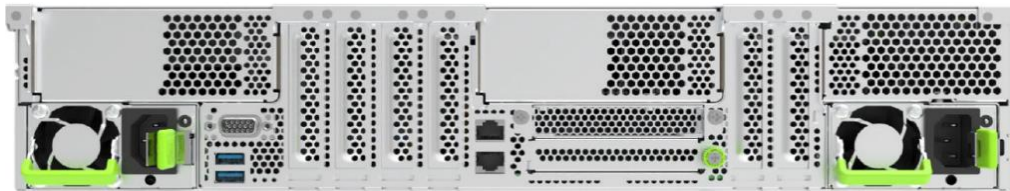
PRIMERGY RX2540 M7 front view with drives and operation panel

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
iRMC advanced pack	1x
embedded Lifecycle Management (eLCM)	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	- 1x USB 3.0
- Slot for interface OCPv3 cards up to 4 LAN ports	- 2x M.2
	- 2x 4* SATA 6G

| SAS/SATA | SAS/SATA/PCIe combo | PCIe |

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
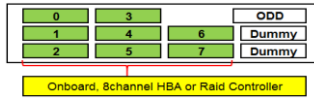
0	3		ODD
1	4	6	Dummy
2	5	7	Dummy

Onboard, 8channel HBA or Raid Controller

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 2024/10

         No Rear Bay option

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

0	3		ODD
1	4	6	8
2	5	7	9

16channel HBA or RAID controller
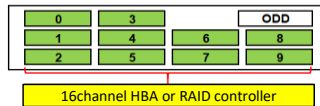
Front
Type 1-3: PSAS CP600i or
     PRAID EP540i / EP580i / EP680i / EP740i * or
     PSAS CP 2200-16i or
     PRAID EP 3258-16i (in internal RAID slot)
                        *: will be available in 2025/01
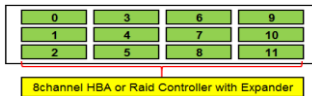
         No Rear Bay option

! 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

0	3	6	9
1	4	7	10
2	5	8	11

8channel HBA or Raid Controller with Expander

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)
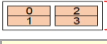   *: will be available in 2024/10

Rear Bay option

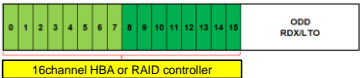| 0 / 1 | 2 / 3 | 4 / 5 | same controller via Expander |
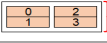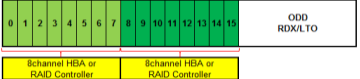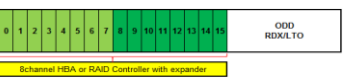
Type 2-6: 4x, 2x SAS/SATA:
     Same controller as Front via Expander

| 0 / 1 | 2 / 3 | 4 / 5 | Separate Retimer |
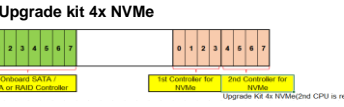
Type 2-7: 4x, 2x NVMe: Max 2x Separate Retimer
     (in PCIe slot 8, 2)
2nd CPU is required for Rear NVMe bay

| 0 / 1 | 2 / 3 | Separate Controller for NVMe |

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 2025/01

Basic units SFF with	Upgrade kit for Front bays
16x 2.5" bays w/o expander **PYR2547R2N**	**(Default Configuration)**

16x 2.5" bays w/o expander   **PYR2547R2N**

Without SAS expander
4x rear SFF option

[Themal Restriction]
Refer to Thermal Rule

(Default Configuration)

`0 1 2 3 4 5 6 7 Dummy Dummy Dummy Dummy Dummy Dummy Dummy Dummy`   ODD RDX/LTO
`Onboard`

! Cable kit for Onboard SATA   PYBCBT013

Front
Type 3-1: Onboard SATA

Rear Bay option
`0 1` `2 3`   Separate Controller for NVMe
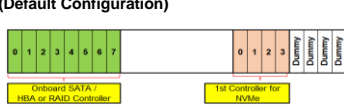
Type 3-5: 4x NVMe:
     Separate PRAID EP680i **NVMe** / EP740i **NVMe** * or
     PSAS CP 2200-16i **NVMe** or
     PRAID EP 3258-16i **NVMe** (in PCIe slot 6)
2nd CPU is required for Rear NVMe bay
                     *: will be available in 2025/01

`0 1 2 3 4 5 6 7 Dummy Dummy Dummy Dummy Dummy Dummy Dummy Dummy`   ODD RDX/LTO
`8channel HBA or RAID Controller`

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

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 2024/10

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15`   ODD RDX/LTO
`16channel HBA or RAID controller`

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

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 2025/01

Rear Bay option
`0 1` `2 3`   Separate Controller for NVMe
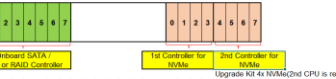
Type 3-9: 4x NVMe:
     Separate PRAID EP680i **NVMe** / EP740i **NVMe** * or
     PSAS CP 2200-16i **NVMe** or
     PRAID EP 3258-16i **NVMe** (in PCIe slot 6)
2nd CPU is required for Rear NVMe bay
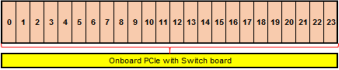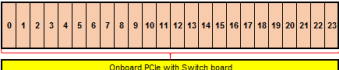   *: will be available in 2025/01

! Upgrade kit for dual RAID SAS/SATA HDD/SSD   PYBCBS092

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15`   ODD RDX/LTO
`8channel HBA or RAID Controller`   `8channel HBA or RAID Controller`

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 2024/10

Please select one of " ! " options with PYR2547R2N, according to your configuration.

16x 2.5" bays w/ expander **PYR2547RBN**	Upgrade kit for Front bays

16x 2.5" bays w/ expander   **PYR2547RBN**

Including SAS expander

[Themal Restriction]
Refer to Thermal Rule

(Default Configuration)

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15`   ODD RDX/LTO
`8channel HBA or RAID Controller with expander`

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 2024/10

8x 2.5" SAS/SATA/NVMe mixed + 8x NVMe
 	
Without SAS expander
 	
[Themal Restriction]
Refer to Thermal Rule
	PYR2547RCN (Default Configuration)
	
	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 2024/10
	
	! 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 2024/10
	
	! 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
 	
Without SAS expander
 	
[Themal Restriction]
Refer to Thermal Rule
	PYR2547RDN (Default Configuration)
	
	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 2025/01
	! Cable kit for Onboard SATA PYBCBT013 **: will be available in 2024/10
	! 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
	! Cable kit for Onboard SATA PYBCBT013 2x PRAID EP 3258-16i **NVMe** (in PCIe slot 1, 6)
	! Cable kit for 8ch RAID/HBA PYBCBS103 **No mixed 1st and 2nd NVMe card** *: will be available in 2025/01
	  controller **2nd CPU is required** **: will be available in 2024/10
	
	**Please select one of " ! " options with PYR2547RDN and PYBBA24PN,
	  according to your configuration.**

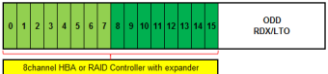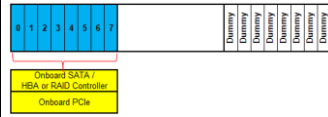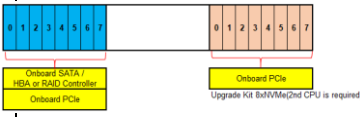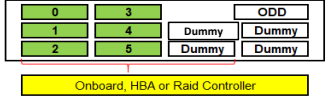| 8x 2.5" SAS/SATA + 4x NVMe　　　　　　　PYR2547RMN	(Default Configuration)
BlueField2 is possible　Will be released in 2024/2Q Without SAS expander [Themal Restriction] Refer to Thermal Rule	**Front 8x2.5" SAS/SATA + 4x NVMe** **Type 6-4:** Onboard SATA, PRAID EP680i **NVMe** / 　　　　EP740i **NVMe** * or PSAS 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 2025/01 　　　　　　　　　　　　**: will be available in 2024/10 **! 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) **No mixed 1st and 2nd NVMe card** *: will be available in 2025/01 **2nd CPU is required**　　　　　**: will be available in 2024/10 **! Cable kit for Onboard SATA**　PYBCBT013 **! Cable kit for 8ch RAID/HBA**　PYBCBS103 **controller** **Please select one of " ! " options with PYR2547RDN and PYBBA24PN, according to your configuration.**

24x 2.5" bays	PYR2547REN	Upgrade kit for Front bays

(Default Configuration)

Without SAS expander
4x rear SFF option
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]
Refer to Thermal Rule

Front

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
1st 8channel HBA or RAID Controller | 2nd 8channel HBA or RAID Controller | 3rd 8channel HBA or RAID Controller

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 2024/10

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

No Rear Bay option

Front

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
1st 16channel HBA or RAID Controller | 2nd 16channel HBA or RAID Controller

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 2025/01

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

Rear Bay Option

`0 1` `2 3` `4 5` ⊢ Same(2nd) Controller

Type 4-3: 4x, 2x SAS/SATA:
 Same controller as Front (2nd card)

`0 1` `2 3` `4 5` ⊢ Separate Retimer

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	PYR2547RFN	

Without SAS expander

[Themal Restriction]

Refer to Thermal Rule

<mark>Will be relelased in 2025.01</mark>

Front

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
PRAID EP781i FH | Onboard PCIe

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 2025/01

24x 2.5" bays	PYR2547RGN	Upgrade kit for Front bays

(Default Configuration)

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

[Themal Restriction]
Refer to Thermal Rule

Front

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
8channel HBA or RAID Controller with expander

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 2024/10

Rear Bay option

`0 1` `2 3` `4 5` ⊢ same Expander

Type 4-13: 4x, 2x SAS/SATA:
 Same controller as Front via expander

`0 1` `2 3` `4 5` ⊢ Separate Retimer

Type 4-16: 4x, 2x NVMe: Max 2x Separate Retimer
 (in PCIe slot 8, 2)
2nd CPU is required for Rear NVMe bay

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

Front

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
16channel HBA or RAID Controller with expander

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 2025/01

Rear Bay option

`0 1` `2 3` `4 5` ⊢ Same Controller

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

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

Please select one of " ! " options with PYR2547RGN, according to your configuration.

24x 2.5" NVMe bays	**PYR2547RHN**	Upgrade kit for Front bays

(Default Configuration)

Onboard PCIe with switch board
4x rear SFF option
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]
Refer to Thermal Rule

[Restriction]
VMD enable and VROC can't be supported

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
Onboard PCIe with Switch board

Front
Type 5-1: Front NVMe: Onboard PCIe via PCIe SW
2nd CPU is required

Rear Bay option

`0 1` `2 3` `4 5` Separate HBA or RAID Controller

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 2024/10

`0 1` `2 3` `4 5` Separate Retimer

Type 5-3: 4x, 2x NVMe: Max 2x Separate Retimer
(in PCIe slot 8, 2)

24x 2.5" NVMe bays	**PYR2547RPN**	Upgrade kit for Front bays
	Will be released in 2024/3Q	

(Default Configuration)

Onboard PCIe with switch board
4x rear SFF option
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]
Refer to Thermal Rule

[Restriction]
VMD enable and VROC can't be supported

`0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23`
Onboard PCIe with Switch board

Front
Type 5-1: Front NVMe: Onboard PCIe via PCIe SW
2nd CPU is required
BlueField2 is possible

Rear Bay option

`0 1` `2 3` `4 5` Separate HBA or RAID Controller

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 2024/10

`0 1` `2 3` `4 5` Separate Retimer

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

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | ODD RDX/LTO |

8channel HBA or RAID Controller with expander

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 2024/10

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

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Dummy | Dummy | Dummy | Dummy | Dummy | Dummy | Dummy | Dummy |

Onboard SATA / HBA or RAID Controller
Onboard PCIe

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 2024/10

   ! 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**

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Onboard SATA / HBA or RAID Controller
Onboard PCIe   Onboard PCIe
Upgrade Kit 8xNVMe(2nd CPU is required)

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 2024/10

   ! 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

0	3	ODD
1	4	Dummy	Dummy
2	5	Dummy	Dummy

Onboard, HBA or Raid Controller

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 2024/10

   ! 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
PYR2547RPN
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
PYR2547RPN
1x EPxxxi NVMe or
1x Retimer is required.
Thermal restriction:
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
PYR2547RPN
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
PYR2547RPN
2nd Retimer is required.
No mixed with EPxxxii NVMe.
Thermal restriction:
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 RMK needed	

B

Chapter 3 - CPU (A)

B

4th Generation Intel® Xeon® Scalable Processors

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With **one** processor 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 3508U, Xeon Gold 5512U and Xeon Platinum 8558U and Xeon Platinum 8581V are not allowed to configure 2nd CPU.

Description	(BTO)	(Loose delivery)	CPU Group for Thermal condition 10x3.5" 12x3.5" 16x2.5" 24x2.5"	DDR5-4800 16GB 32GB 64GB 128GB 256GB	DDR5-5600 16GB 32GB 64GB 128GB 256GB	96GB
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	○		
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	○		
Xeon Silver 4416+ 20C 2.0GHz 165W	PYBCP66XH	PY-CP66XH	B	○		
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	○		
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	○		
Xeon Gold 5418Y 24C 2.0GHz 185W Speed Select Technology	PYBCP65XW	PY-CP65XW	B	○		
Xeon Gold 5420+ 28C 2.0GHz 205W	PYBCP65XX	PY-CP65XX	B	○		
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	○	○	
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	○		
Xeon Gold 6430 32C 2.1GHz 270W (DDR5 @ 4400(1DPC/2DPC))	PYBCP65X2	PY-CP65X2	D	○	○	
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	○		
Xeon Gold 6442Y 24C 2.6GHz 225W Speed Select Technology	PYBCP66X9	PY-CP66X9	C	○		
Xeon Gold 6444Y 16C 3.6GHz 270W Speed Select Technology	PYBCP66XA	PY-CP66XA	D	○		
Xeon Gold 6448Y 32C 2.1GHz 225W Speed Select Technology	PYBCP66XC	PY-CP66XC	C	○		
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	○		
Xeon Platinum 8452Y 36C 2.0GHz 300W Speed Select Technology	PYBCP65X8	PY-CP65X8	D	○	○	
Xeon Platinum 8460Y+ 40C 2.0GHz 300W Speed Select Technology	PYBCP65XE	PY-CP65XE	D	○	○	
Xeon Platinum 8468 48C 2.1GHz 350W	PYBCP65XF	PY-CP65XF	D	○	○	
Xeon Platinum 8470 52C 2.0GHz 350W	PYBCP65XK	PY-CP65XK	D	○	○	
Xeon Platinum 8480+ 56C 2.0GHz 350W	PYBCP65XN	PY-CP65XN	D	○	○	
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	○	○	
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	○		
Xeon Platinum 8468V 48C 2.4GHz 330W Speed Select Technology	PYBCP65XJ	PY-CP65XJ	D	○	○	
Xeon Platinum 8458P 44C 2.7GHz 350W Speed Select Technology	PYBCP65XB	PY-CP65XB	D	○	○	
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	○		
Xeon Gold 6428N 32C 1.8GHz 185W (DDR5 @ 4000(1DPC/2DPC)) Speed Select Technology	PYBCP66X3	PY-CP66X3	B	○		
Xeon Gold 6438N 32C 2.0GHz 205W Speed Select Technology	PYBCP66X7	PY-CP66X7	B	○		
Xeon Platinum 8470N 52C 1.7GHz 300W Speed Select Technology	PYBCP65XL	PY-CP65XL	D	○	○	
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	○		
Xeon Gold 6454S 32C 2.2GHz 270W Speed Select Technology	PYBCP65X3	PY-CP65X3	D	○	○	
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	○		
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	○		
Xeon Max 9460 40C 2.2GHz 350W	PYBCP66XK	PY-CP66XK	E	○		
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	○		

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) EMEA/APAC/FBR only	PYBTKCPCA2	
Cooling kit 1U EVAC heatsink and air duct for CPU B (Required for rear Bay with KIOXIA NVMe for 3.5" base unit) EMEA/APAC/FBR only	PYBTKCPCA3	-

C

Chapter 3 - CPU (B)

B

5th Generation Intel® Xeon® Scalable Processors

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With **one** processor 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 3508U, Xeon Gold 5512U and Xeon Platinum 8558U and Xeon Platinum 8581V are not allowed to configure 2nd CPU.

CPU Group for Thermal condition:
10x3.5"
12x3.5"
16x2.5"
24x2.5"

Available DIMM Type:
DDR5-4800: 16GB 32GB 64GB 128GB 256GB
DDR5-5600: 16GB 32GB 64GB 128GB 256GB
96GB* — *Will be available 2Q,2024 for 5th gen CPU

Description	BTO	Loose delivery	CPU Group Thermal	DDR5-4800	DDR5-5600	96GB*	Note
Xeon Bronze 35xx - Mainline, 1 socket configuration only	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s							
Xeon Bronze 3508U 8C 2.1GHz 125W	PYBCP68X1	-	A	O			
Xeon Silver 45xx - Mainline, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s & UPI Bus (2UPI) @ 16 GT/s							
Xeon Silver 4509Y 8C 2.6GHz 125W Speed Select Technology	PYBCP68X2	PY-CP68X2	A	O			
Xeon Silver 4510 12C 2.4GHz 150W	PYBCP68X3	PY-CP68X3	A	O			
Xeon Silver 4514Y 16C 2.0GHz 150W Speed Select Technology	PYBCP68X4	PY-CP68X4	A	O			
Xeon Silver 4516Y+ 24C 2.2GHz 185W Speed Select Technology	PYBCP68X5	PY-CP68X5	B	O			
Xeon Gold 55xx - 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 5512U 28C 2.1GHz 185W	PYBCP68X6	-	B	O			
Xeon Gold 55xx - Mainline/Performance Optimized, 2 socket scalablity	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s							
Xeon Gold 5515+ 8C 3.2GHz 165W	PYBCP68X7	PY-CP68X7	B	O			
Xeon Gold 5520+ 28C 2.2GHz 205W	PYBCP68X8	PY-CP68X8	B	O			
Xeon Gold 65xx - Mainline/Performance Optimized, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s							
Xeon Gold 6526Y 16C 2.8GHz 195W Speed Select Technology	PYBCP68X9	PY-CP68X9	B		O		
Xeon Gold 6530 32C 2.1GHz 270W (DDR5 @4800(1DPC) / 4400(2DPC))	PYBCP68XA	PY-CP68XA	D	O	O		
Xeon Gold 6534 8C 3.9GHz 195W (DDR5 @4800(1DPC) / 4400(2DPC))	PYBCP68XB	PY-CP68XB	C	O			
Xeon Gold 6538Y+ 32C 2.2GHz 225W Speed Select Technology	PYBCP68XC	PY-CP68XC	C		O		
Xeon Gold 6542Y 24C 2.9GHz 250W Speed Select Technology	PYBCP68XD	PY-CP68XD	C		O		
Xeon Gold 6544Y 16C 3.6GHz 270W Speed Select Technology	PYBCP68XE	PY-CP68XE	D		O		
Xeon Gold 6548Y+ 32C 2.5GHz 250W Speed Select Technology	PYBCP68XF	PY-CP68XF	C		O		
Xeon Platinum 85xx - Mainline/Performance, 1 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s							
Xeon Platinum 8558U 48C 2.0GHz 300W Speed Select Technology	PYBCP68XG	-	D	O		O	Will be available June,2024
Xeon Platinum 85xx - Mainline/Performance, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 5600(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 20 GT/s							
Xeon Platinum 8562Y+ 32C 2.8GHz 300W (UPI Bus (3UPI)) Speed Select Technology	PYBCP68XJ	PY-CP68XJ	D		O		Will be available June,2024
Xeon Platinum 8558 48C 2.1GHz 330W (DDR5 @5200(1DPC) / 4400(2DPC))	PYBCP68XH	PY-CP68XH	D		O	O	Will be available June,2024
Xeon Platinum 8568Y+ 48C 2.3GHz 350W Speed Select Technology	PYBCP68XK	PY-CP68XK	D		O	O	Will be available June,2024
Xeon Platinum 8570 56C 2.1GHz 350W	PYBCP68XL	PY-CP68XL	D		O	O	Will be available June,2024
Xeon Platinum 8580 60C 2.0GHz 350W	PYBCP68XM	PY-CP68XM	D		O	O	Will be available June,2024
Xeon Platinum 8592+ 64C 1.9GHz 350W	PYBCP68XN	PY-CP68XN	D		O	O	
Xeon - Cloud Optimized, 1 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4800(1DPC) / 4400(2DPC) MT/s							
Xeon Platinum 8581V 60C 2.0GHz 270W Speed Select Technology	PYBCP68XX	-	D	O		O	Will be available June,2024
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) @ 20 GT/s							
Xeon Platinum 8592V 64C 2.0GHz 330W Speed Select Technology	PYBCP68XR	PY-CP68XR	D	O		O	Will be available June,2024
Xeon Platinum 8558P 48C 2.7GHz 350W (DDR5 @5600(1DPC) / 4400(2DPC)) Speed Select Technology	PYBCP68XS	PY-CP68XS	D		O	O	Will be available June,2024
Xeon - Network Optimized, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (3UPI) @ 20 GT/s							
Xeon Gold 6538N 32C 2.1GHz 205W Speed Select Technology	PYBCP68XT	PY-CP68XT	B		O		Will be available June,2024
Xeon Gold 6548N 32C 2.8GHz 250W Speed Select Technology	PYBCP68XU	PY-CP68XU	C		O		Will be available June,2024
Xeon - Storage & HCI Workload Optimized, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 5200(1DPC) / 4400(2DPC) MT/s & UPI Bus (4UPI) @ 20 GT/s							
Xeon Gold 6554S 36C 2.2GHz 270W Speed Select Technology	PYBCP68XV	PY-CP68XV	D		O	O	
Xeon - Edge (IOT) Workload Optimized, 2 socket scalability	(BTO)	(Loose delivery)					
64-bit Intel Xeon processor supporting HT*, DDR5 @ 4400 MT/s & UPI Bus (2UPI) @ 16 GT/s							
Xeon Silver 4510T 12C 2.0GHz 115W Speed Select Technology	PYBCP68XW	PY-CP68XW	A	O			

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) EMEA/APAC/FBR only	PYBTKCPCA2	
Cooling kit 1U EVAC heatsink and air duct for CPU B (Required for rear Bay with KIOXIA NVMe for 3.5" base unit) EMEA/APAC/FBR only	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 16 Slots you have to configure 2nd CPU.
Depending on the amount of memory configured you can decide Normal Memory RAS mode or Mirroring Memory RAS Mode.

There are different kinds of DDR5 Memory Modules available: RDIMM x4, RDIMM x8 and RDIMM 3DS x4
Mix of these different kind of memories is not allowed.

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

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

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

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

Memory Mode ; either one of follwoig memory modes must be selected.			
Normal 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
HBM CPUs can work as memory with memory less configuration. If you order HBM SKUs with no DIMMs, you should order HBM-ONLY Mode.			
HBM Cache Mode	Requires HBM CPU, 4, 8 or 16 memory Module per CPU	1x per CPU	PYBMMHC1
HBM works as cache of memory under BIOS preconfiguration. Additional DIMM is needed			
HBM Flat Mode	Requires HBM CPU, 1, 2, 4, 8 or 16 memory Module per CPU	1x per CPU	PYBMMHF1
In this Mode, DDR can be added for a high capacity, HBM&DDR exposed as 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
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 only configuration section

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

DDR5-4800

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 on 5th gen CPU June,2024
256GB (1x256GB) 8Rx4 DDR5-4800 R 3DS ECC	max 16x per CPU	PYBME25SL	PY-ME25SL	Will be available on 5th gen CPU June,2024

max 16x per CPU; max 32x for System

DDR5-5600

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

max 16x per CPU; max 32x for System

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

max 16x per CPU; max 32x for System

DDR5 Registered DIMM 5600MHz 1R/2R x4				
96GB (1x96GB) 2Rx4 DDR5-5600 R ECC	max 16x per CPU	PYBME96SP	PY-ME96SP	Will be available on 5th gen CPU June,2024

max 16x per CPU; max 32x for System

DDR5 Registered DIMM 5600MHz 3DS 4R/8R x4				
128GB (1x128GB) 4Rx4 DDR5-5600 R 3DS ECC	max 16x per CPU	PYBME12SP	PY-ME12SP	Will be available June,2024
256GB (1x256GB) 8Rx4 DDR5-5600 R 3DS ECC	max 16x per CPU	PYBME25SP	PY-ME25SP	Will be available June,2024

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
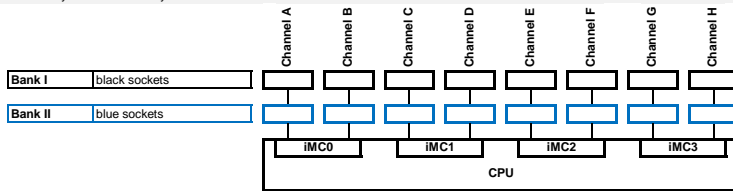
Normal Mode population DDR5 DIMM only

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 poputated in each Chanel.

1 DIMMs for 1CPU
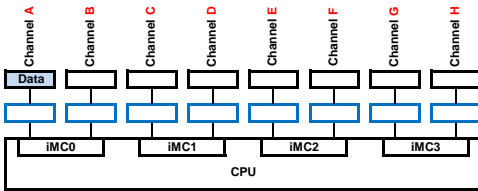
1 DIMMs for 1CPU
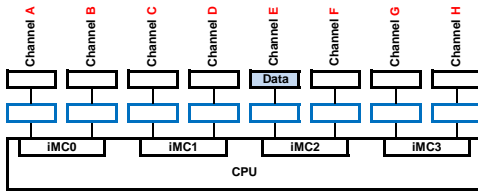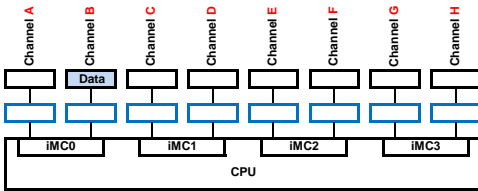
1 DIMMs for 1CPU
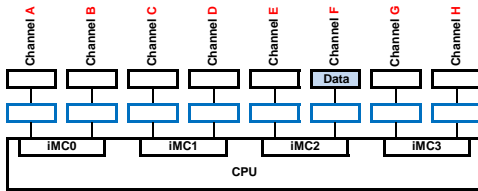
1 DIMMs for 1CPU

2 DIMMs for 1CPU
2x identical memory modules need to be populated.
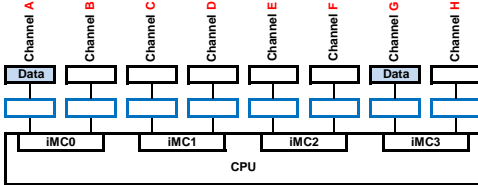
2 DIMMs for 1CPU
2x identical memory modules need to be populated.
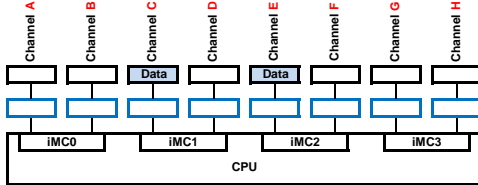
4 DIMMs for 1CPU
4x identical memory modules need to be populated.
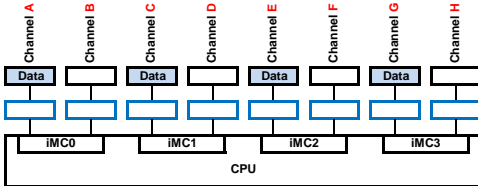
6 DIMMs for 1CPU
6x identical memory modules need to be populated.

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.

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Data | | Data | | Data | Data | Data

iMC0 | iMC1 | iMC2 | iMC3

CPU

8 DIMMs for 1CPU
4x identical memory modules need to be populated.

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Data | Data | Data | Data | Data | Data | Data

iMC0 | iMC1 | iMC2 | iMC3

CPU

12 DIMMs for 1CPU
12x identical memory modules need to be populated.

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Data | Data | Data | Data | Data | Data | Data
 | Data | | Data | | Data | | Data

iMC0 | iMC1 | iMC2 | iMC3

CPU

12 DIMMs for 1CPU
12x identical memory modules need to be populated.

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Data | Data | Data | Data | Data | Data | Data
Data | | Data | | Data | | Data |

iMC0 | iMC1 | iMC2 | iMC3

CPU
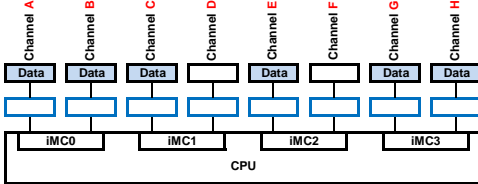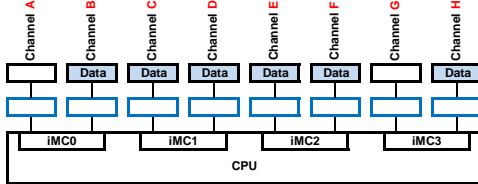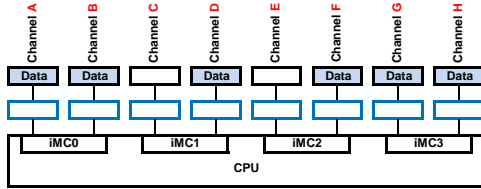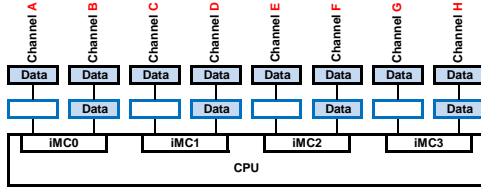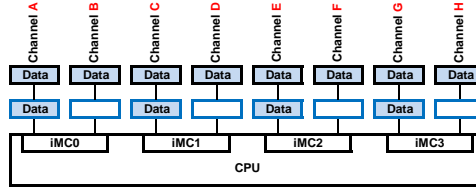
16 DIMMs for 1CPU
8x identical memory modules need to be populated.

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Data | Data | Data | Data | Data | Data | Data
Data | Data | Data | Data | Data | Data | Data | Data

iMC0 | iMC1 | iMC2 | iMC3

CPU
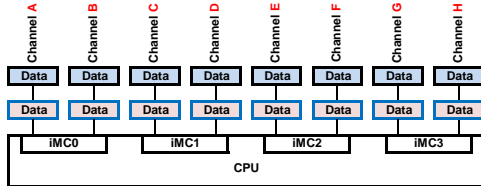
Mirroing Mode population DDR5 DIMM only

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

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Mirror | Data | Mirror | Data | Mirror | Data | Mirror

iMC0 | iMC1 | iMC2 | iMC3

CPU

16 DIMMs for 1CPU

Channel A | Channel B | Channel C | Channel D | Channel E | Channel F | Channel G | Channel H
Data | Mirror | Data | Mirror | Data | Mirror | Data | Mirror
Data | Mirror | Data | Mirror | Data | Mirror | Data | Mirror

iMC0 | iMC1 | iMC2 | iMC3

CPU

Chapter 5 - Graphics options

The different GPU mixed configuration does not support.

The high and 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.

NVIDIA A2/L4

The different GPU mixed configuration does not support.

It would like to buy 6x NVIDIA A2,
you need to order "Mounting Kits" and 2x NVIDIA A2 Full-Height" type.

It would like to buy 6x NVIDIA L4,
you need to order "Mounting Kits" and 2x NVIDIA L4 Full-Height" type.

NVIDIA RTX A4500 / RTX A6000 / A30 / A100 80GB
NVIDIA A2 / A40 / A30 / H100 / L4 / L40 /A5000/6000 /L40S

The different GPU mixed configuration does not support.

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

It would like to buy 6x NVIDIA A2.
you need to order "Mounting Kits" and 2x NVIDIA A2 Full-Height" type.

It would like to buy 6x NVIDIA L4,
you need to order "Mounting Kits" and 2x NVIDIA L4 Full-Height" type.

Perpetual Software license

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

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

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

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

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

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

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

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

Subscription Software license

Education Perpetual license

Perpetual license

Subscription license

Converged Accelerator card

NVIDIA A30 / A40 / RTX A5000
NVIDIA A100 80GB / H100 80GB / L4 / L40

NVAIE Subscription Software license

NVAIE Education Software license

NVAIE 24x7 Support Service License

NVAIE Education 24x7 Support Service License

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 | low-profile slot |

Possibility to install PCIe riser with x8
Slot for 1st Retimer card

| Slot 7 PCIe-5 x16, max. 198mm @ CPU2 | low-profile slot |

| Slot 6 PCIe-5 x8, max. 198mm @ CPU2 | low-profile slot |

Preferred slot for 3rd modular RAID-Controller (3x configuration)
Preferred slot for 2nd modular RAID-Controller (2x configuration)

| Slot 5 PCIe-5 x8, max. 198mm @ CPU2 | low-profile slot |

Preferred slot for 2nd modular RAID-Controller (3x configuration)

| 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 | low-profile slot |

Possibility to install PCIe riser with x8
Slot for 2nd Retimer card

| 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

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

BIOS version R1.12.0 or later is required to use Intel VROC (SATA RAID)

internal HBA and RAID controller, no 2nd Level cache

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

PRAID CP600i LP available from 2024/10	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	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)
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	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 2025/01   **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 2025/01	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 2025/01	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) available from 2025/01					
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

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)					
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	PDUAL CP100
PRAID CP500i	PSAS CP 2100-8i	PDUAL CP300
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)

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

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

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-F3641-E6**	**S26361-F3718-E2**
S26361-F3778-L1	**S26361-F3641-L6**	**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

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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!

K
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
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

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	**PYBSS80NGG**	**PY-SS80NGG**
1.6TB	2.5" (SFF)	SAS 24Gb/s	Write Intensive	10	SED	**PYBSS16NGG**	**PY-SS16NGG**

max. 30x - depending on base unit & configuration

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

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

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	PYBSS76NNN	PY-SS76NNN
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	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 **Samsung PM1653** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS96NNM	PY-SS96NNM
1.92TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS19NNP	PY-SS19NNP
3.84TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS38NNN	PY-SS38NNN
7.68TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS76NNP	PY-SS76NNP
15.36TB	2.5" (SFF)	SAS 24Gb/s	Read Intensive	1	SED	PYBSS15NNN	PY-SS15NNN

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

max. 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

The SSDs not released with PRAID CP500i   will be available in CQ2'24

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

based on **Samsung PM897a** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS48NKS	PY-SS48NKS
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS96NKS	PY-SS96NKS
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS19NKS	PY-SS19NKS
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBSS38NKS	PY-SS38NKS

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

max. 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

The SSDs not released with PRAID CP500i   will be available in CQ2'24

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

based on **Samsung PM893a** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS48NME	PY-SS48NME
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS96NME	PY-SS96NME
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS19NME	PY-SS19NME
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS38NME	PY-SS38NME
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBSS76NME	PY-SS76NME

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

max. 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

EOL, as long as stock available

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

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

max. 30x - depending on base unit & configuration

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

Capacity	RPM	Interface	Sector		order code E-part	order code L-part
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5729-E130**	**S26361-F5729-L130**
600GB	10 000	SAS 12Gb/s	512n		**S26361-F5729-E160**	**S26361-F5729-L160**
1.2TB	10 000	SAS 12Gb/s	512n		**S26361-F5729-E112**	**S26361-F5729-L112**
300GB	10 000	SAS 12Gb/s	512n	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

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

EOL, as long as stock available

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

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

max. 30x - depending on base unit & configuration

EOL, as long as stock available

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

Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n		**S26361-F3956-E100**	**S26361-F3956-L100**
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

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

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

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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.92TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		**PYBTS19NNH**	**PY-TS19NNH**
3.84TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		**PYBTS38NNH**	**PY-TS38NNH**
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		**PYBTS76NNJ**	**PY-TS76NNJ**
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1		**PYBTS15NN**	**PY-TS15NN**
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS76NNK**	**PY-TS76NNK**
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**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 **Samsung PM1653** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS96NNH**	**PY-TS96NNH**
1.92TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS19NNJ**	**PY-TS19NNJ**
3.84TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS38NNJ**	**PY-TS38NNJ**
7.68TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS76NNL**	**PY-TS76NNL**
15.36TB	3.5" (LFF)	SAS 24Gb/s	Read Intensive	1	SED	**PYBTS15NN3**	**PY-TS15NN3**

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.
max. 12x - depending on base unit & configuration

SSD SAS 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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The SSDs not released with PRAID CP500i — will be available in CQ2'24

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray
based on Samsung PM897a drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS48NK9	PY-TS48NK9
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS96NK9	PY-TS96NK9
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS19NK9	PY-TS19NK9
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	SED	PYBTS38NK9	PY-TS38NK9

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

The SSDs not released with PRAID CP500i — will be available in CQ2'24

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray
based on Samsung PM893a drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS48NMB	PY-TS48NMB
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS96NMA	PY-TS96NMA
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS19NMA	PY-TS19NMA
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS38NMA	PY-TS38NMA
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	SED	PYBTS76NMA	PY-TS76NMA

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

EOL, as long as stock available

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

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

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

Capacity	RPM	Interface	Sector		order code E-part	order code L-part
12TB	7 200	SAS 12Gb/s	512e		PYBCHCT7B7	PY-CHCT7B7
14TB	7 200	SAS 12Gb/s	512e		PYBCHET7B6	PY-CHET7B6
16TB	7 200	SAS 12Gb/s	512e		S26361-F5571-E160	S26361-F5571-L160
18TB	7 200	SAS 12Gb/s	512e		PYBCHJT7B2	PY-CHJT7B2
20TB	7 200	SAS 12Gb/s	512e		PYBCHLT7B	PY-CHLT7B
12TB	7 200	SAS 12Gb/s	512e	SED	PYBCHCT7BW	PY-CHCT7BW
14TB	7 200	SAS 12Gb/s	512e	SED	PYBCHET7BV	PY-CHET7BV
16TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E160	S26361-F5624-L160
18TB	7 200	SAS 12Gb/s	512e	SED	PYBCHJT7BT	PY-CHJT7BT
max. 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.
2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
max. 2x per Server; M.2 Riser Kit is required. (please see folder "description"). VMware is not supported.
2x M.2 drives required; in case M.2 drives are used with PDUAL CP100 or CP300.

SSD PCIe M.2 drive for booting, non hot-plug
based on **Micron 7450 PRO** drives

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

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

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

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

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

PDUAL CP100 is a carrier of 2x SSD SATA M.2 drives, which offers RAID1 with the 2x SSD M.2 drives.
PDUAL CP100 is designed for use as a hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAID.
Supported RAID level : RAID1 only, 2x same type of SSD M.2 drives need to be ordered separately.
Supported M.2 drives : SSD SATA M.2 240GB/480GB/960GB or 240GB for VMware ESXi. (S26361-F5787- E240/L240/E480/L480, PY*MF96YN or S26361-F5816-E240/L240)
max. 1x per Server, requires 2x SSD SATA M.2 drives.

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

Capacity	Formfactor	Interface		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)   In PYR2547RAN, SSD PCIe M.2 are not supported by PDUAL CP300.
max. 1x per Server, requires 2x SSD M.2 drives.

RAID PRESET option

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

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

2.5" (SFF) PCIe-SSD

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

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

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

supported VMD / VROC excluding PYR2547RHN   limitation : can not support VMD / VROC with PYR2547RHN
limitation : can not support VMD / VROC so far   As for PYR2547RHN, the target is in CY24/Q1

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 L-parts for PYR2547RHN

EOL, as long as stock available

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray
based on **Kioxia CM6-V** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		**PYBBS16PD6**	**PY-BS16PD6**
3.2TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		**PYBBS32PD6**	**PY-BS32PD6**
6.4TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		**PYBBS64PD6**	**PY-BS64PD6**
12.8TB	2.5" (SFF)	PCIe4.0 x4	Mixed Use	3		**PYBBS12PD6**	**PY-BS12PD6**

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

supported VMD / VROC excluding PYR2547RHN   limitation : can not support VMD / VROC with PYR2547RHN
limitation : can not support VMD / VROC so far   As for PYR2547RHN, the target is in CY24/Q1

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 L-parts for PYR2547RHN

EOL, as long as stock available

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray
based on **Kioxia CM6-R** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
960GB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		**PYBBS96PE6**	**PY-BS96PE6**
1.92TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		**PYBBS19PE6**	**PY-BS19PE6**
3.84TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		**PYBBS38PE6**	**PY-BS38PE6**
7.68TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		**PYBBS76PE6**	**PY-BS76PE6**
15.36TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		**PYBBS15PE6**	**PY-BS15PE6**

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

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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					

Broadcom 10GbE BASE-T for OCPv3

PLAN EP N210TP 2X 10GBASE-T OCPv3 PT	1x	Broadcom, 10GTx2port	PYBLA3K2U	PY-LA3K2U	Will be available from 2Q,CY2024
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					

Broadcom 10GbE for OCPv3

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

PLAN EP N210P 2X 10G SFP+ OCPv3 PT	1x	Broadcom, 10Gx2port	PYBLA3J2U	PY-LA3J2U	Will be available from 2Q,CY2024
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. 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	Will be available from 1Q,CY2024
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					

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 3Q,CY2024
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	4x	Broadcom, 1GTx4port	PYBLA284	PY-LA284
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	4x		PYBLA284L	

max. 4x adapters per system

Intel 1GbE BEASE-T for PCIe

PLAN CP 2x1Gbit Cu Intel I350-T2 FH	4x	Intel, 1GTx2port	S26361-F4610-E2	S26361-F4610-L502	Will be available from 2Q,CY2024
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	4x		S26361-F4610-E202		Will be available from 2Q,CY2024
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	4x	2 port NIC,	PYBLA3K2	PY-LA3K2
PLAN EP P210TP 2X 10GBASE-T PCIe LP	4x	Broadcom P210TP	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	4x	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 parts, please select L parts.

PLAN EP P225P 25Gb 2p SFP28 PCIe FH	4x	Broadcom, 25Gx2port	PYBLA3H2	PY-LA3H2
PLAN EP P225P 25Gb 2p SFP28 PCIe LP	6x		PYBLA3H2L	
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. 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
PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	6x		PYBLA402L4	
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. 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
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				

Will not be available the mix with 5th gen CPU

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				

PCIe Adapter Smart NIC					

NVIDIA 25GbE

Each cage consumes 1x SFP28. **All ports on this card can install the same Parts Number of optical module.**
This card is only for Vsphere Distributed Services Engine.(VDSE). It cannot be used for other purpose.
Available base model is limited. please refer to "base" sheet for the details.
Not mounted with other SmartNIC and IB cards.
Full Hight PCIe(x16) Riser right[PYBPRE648/PY-PRE648] should be needed.

Ethernet Network Adapters

PLAN EP BlueField2 2X 25GBASE PCIe	1x	NVIDIA, 25Gx2port	PYBSN402	PY-SN402	Will be available from 2Q,CY2024
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					
max. 1x adapters per system					

NVIDIA 100GbE

Each cage consumes 1x QSFP56. **All ports on this card can install the same Parts Number of optical module.**
This card is only for Vsphere Distributed Services Engine.(VDSE). It cannot be used for other purpose.
Available base model is limited. please refer to "base" sheet for the details.
Not mounted with other SmartNIC and IB cards
Full Hight PCIe(x16) Riser right[PYBPRE648/PY-PRE648] should be needed.

Ethernet Network Adapters

PLAN EP BlueField2 2X 100GBASE PCIe	1x	NVIDIA, 100Gx2port	PYBSN412	PY-SN412	Will be available from End of 4Q,CY2024
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 adapters per 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
PFC EP LPe36000 1X 64GFC PCIe v4 LP	6x		PYBFC441L	
PFC EP LPe36002 2X 64GFC PCIe v4	4x	Broadcom, 64GFCx2port	PYBFC442	PY-FC442
PFC EP LPe36002 2X 64GFC PCIe v4 LP	6x		PYBFC442L	
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
PFC EP QLE2770 1X 32GFC PCIe v4 LP	6x		PYBFC411L	
PFC EP QLE2772 2X 32GFC PCIe v4	4x	Marvell, 32GFCx2port	PYBFC412	PY-FC412
PFC EP QLE2772 2X 32GFC PCIe v4 LP	6x		PYBFC412L	
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	PY-HC402	PY-HC541	PY-HC521
S26361-F5756-E102	**PYBHC402**	**PYBHC541**	**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 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 except 500W, 500W platinum/titanium PSU min.2 / 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 ATD40/4	**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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S26361-F3301-E541 EOL
RX2540 Mx E-Star Fam1
Limits configuration in accordance
with Energy Star requirements for systems with 1 CPU
max. 1x per system

S26361-F3301-E542 EOL
RX2540 Mx E-Star Fam2
Limits configuration in accordance
with Energy Star requirements for systems with 2 CPU
max. 1x per system

PYBES24
RX2540 Mx E-Star Fam1
Limits configuration in accordance
with Energy Star requirements for systems with 1 CPU
max. 1x per system

PYBES25
RX2540 Mx E-Star Fam2
Limits configuration in accordance
with Energy Star requirements for systems with 2 CPU
max. 1x per system

1 CPU Variant   limitations for E-Star Fam1
not allowed are: certification

- 2 CPU configuration
- CPU Xeon Bronze 3408U
- 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)

2 CPU Variant   limitations for E-Star Fam2
not allowed are: certification

- 1 CPU configuration
- CPU Xeon Bronze 3408U
- 2x internal HBA/RAID cards configuration (1x internal HBA/RAID card is ok)

1 CPU Variant   limitations for E-Star Fam1
not allowed are: certification

- 2 CPU configuration
- CPU Xeon Bronze 3408U
- CPU Xeon Silver 4410Y
- CPU Xeon Silver 4410T
- CPU Xeon Silver 4416+
- CPU Xeon Gold 5415+
- CPU Xeon Gold 5416S
- CPU Xeon Gold 6434
- CPU Xeon Bronze 3508U
- CPU Xeon Silver 4510
- CPU Xeon Silver 4514Y
- CPU Xeon Silver 4510T
- CPU Xeon Gold 5515+
- CPU Xeon Gold 6534
- 900W platinum PSU
- 1600W platinum PSU

2 CPU Variant   limitations for E-Star Fam2
not allowed are: certification

- 1 CPU configuration
- CPU Xeon Bronze 3408U
- CPU Xeon Silver 4410Y
- CPU Xeon Silver 4410T
- CPU Xeon Gold 5415+
- CPU Xeon Gold 5416S
- CPU Xeon Gold 6434
- CPU Xeon Bronze 3508U
- CPU Xeon Silver 4510
- CPU Xeon Silver 4514Y
- CPU Xeon Silver 4510T
- CPU Xeon Gold 5515+
- CPU Xeon Gold 6534
- 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 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, PYR2547RMN, PYR2547RPN**	
Erp Lot9 configuration 1	**PYBETL25**

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, PYR2547RMN, PYR2547RPN**	
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, PYR2547RMN, PYR2547RPN)
- 1G LAN max. 1
Not allowed:
- CPU: Bronze 3508U (PYBCP68X1)/3408U (PYBCP65XR)

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, PYR2547RMN, PYR2547RPN)
Not allowed:
- CPU: Bronze 3508U (PYBCP68X1)/3408U (PYBCP65XR)
- DIMM: 16GB DIMM (PYBME16SL/PYBME16SP)

S

Chapter 18 - Thermal Rule

Q

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 DDR5	Front drive bay 10x3.5"	12x3.5"	Nvidia A2/L4	Option Card LP PCIe	FH PCIe	OCP	Ambient Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6	Front: 0-6	0				35C
	CPU B		7-10**	7-12**		Level1-4	Level1-4	Tier1-8	
	CPU C		Rear: 0	Rear: 0					
	CPU A	16GB - 256GB	Front: 0-6	Front: 0-6	0	Level1-7	Level1-8	Tier 1-10	
	CPU B		Rear: 0	Rear: 0					
	CPU C					Level1-6	Level1-7		30C *
	CPU A	16GB - 256GB	Front:7-10**	Front: 7-12**	0				
	CPU B		Rear: 0	Rear: 0		Level1-5	Level1-5	Tier1-9	
	CPU C								
	CPU D	16GB - 256GB	Front:0-10**	Front:0-12**	0				
			Rear: 0	Rear: 0		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 DDR5	Front drive bay 10x3.5"	12x3.5"	Nvidia A2/L4	Option Card LP PCIe	FH PCIe	OCP	Ambient Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6	Front: 0-6	1-6	Level1-7	Level1-8	Tier1-10	
	CPU B		Rear: 0	Rear: 0					30C *
	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 DDR5	Front / Rear drive bay 12x3.5"		Nvidia A2/L4	Option Card LP PCIe	FH PCIe	OCP	Ambient Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6		0	Level1-4	Level1-4	Tier1-8	
	CPU B		7-12**						30C *
	CPU C		Rear : 1-6						
	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/
PYBBS16PDB/PYBBS32PDB/PYBBS64PDB/PYBBS12PDB/PYBBS19PEA/PYBBS38PEA/PYBBS76PEA/PYBBS15PEB

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

CPU		Memory Type DDR5	Front / Rear drive bay 12x3.5"		Nvidia A2/L4	Option Card LP PCIe	FH PCIe	OCP	Ambient Temp.
2CPU/1CPU configuration	CPU A	16GB - 256GB	Front: 0-6		0	Level1-4	Level1-4	Tier1-8	30C *
			7-12**						
	CPU B		Rear : 1-6						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/
PYBBS16PDB/PYBBS32PDB/PYBBS64PDB/PYBBS12PDB/PYBBS19PEA/PYBBS38PEA/PYBBS76PEA/PYBBS15PEB

**** Need to select Cooling kit 1U EVAC heatsink and air duct for CPU B(PYBTKCPCA3)

3.5" base unit (ATD40)

CPU		Memory Type DDR5	Front drive bay 10x3.5"	12x3.5"	Nvidia A2/L4	Option Card LP PCIe	FH PCIe	OCP	Ambient Temp.
2CPU/1CPU configuration	CPU A	16GB - 128GB	Front: 0-6	Front: 0-6	0	Level1-3	Level1-3	Tier1-7	
	CPU B		Rear: 0	Rear: 0					40C
	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 - 128GB	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, BlueField2)

CPU		Memory Type	Front / Rear drive bay		Nvidia A2/L4	Option Card			Ambient
		DDR5	8x/16x2.5"	24x2.5"		LP PCIe	FH PCIe/BlueField2***	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)

***PLAN EP BlueField2 2X 100GBASE PCIe not be supported

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	Front: 0-24	0	Level1-6	Level1-6	Tier1-11	30C *
	CPU B		Rear:1-6	Rear:1-6					
	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 - 128GB	Front: 0-16	Front: 0-24	0	Level1-5	Level1-5	Tier1-9	40C
	CPU B		Rear:0	Rear:0					
	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 - 128GB	Front: 0-16	Front: 0-24	0	Level1-4	Level1-4	Tier1-8	45C
	CPU B		Rear:0	Rear:0					
	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	Front: 0-16	0	Level1-6	**	Tier1-9	30C *
	CPU B		Rear: 0	Rear: 0					
	CPU C								
	CPU A	16GB - 256GB	Front: 0-6	Front: 0-16	0	Level1-7	**	Tier1-10	25C ***
	CPU B		Rear: 0	Rear: 0					
	CPU C								
	CPU D						Level1-6		Tier1-9	
	CPU E	Not support							

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

** Only GFX/GPU cards are supported
*** Need to select Configuration Thermal Design 25℃(PYBET21)

Option card: PCIe Level for Thermal condition

Card		Product Number FH	LP	PCIe Level
RAID/SAS	PDUAL CP100		PYBDMCP24L	Level4
	PDUAL CP300		PYBDMCP35L	Level5
	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
Smart NIC	PLAN EP BlueField2 2X 25GBASE PCIe	PYBSN402		Level6
	PLAN EP BlueField2 2X 100GBASE PCIe	PYBSN412		Level8
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

s

Chapter 19 - others

O

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

will be available in CQ2'24

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

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

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

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

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

will be replaced to TPM20 in April 2024	will be available in April 2024	

PYBTPM14	**PYBTPM20**	**PYBNTPM**
PY-TPM14	**PY-TPM20**	No TPM for WINSVR
TPM 2.0 Module SPI	TPM 2.0 Module V2	Either PYBTPM14 or PYBTPM20 or PYBNTPM is required in
required for Microsoft Windows Server 2022 (host OS)	required for Microsoft Windows Server 2022 (host OS)	ordering Windows Server 2022 OEM
max. 1x per system	max. 1x per system	max. 1x per system

When Windows Server 2022 is used as a host OS, PYBTPM14, PY-TPM14, PYBTPM20 or PY-TPM20 is
required. This requirement, however, can be waived if the end customer expresses their desire to
configure the server system without a TPM. In that case, No TPM for WINSVR can be selected.
When Windows Server 2022 is used as a guest OS, TPMs are not necessary.
OS support matrix:

PYBTPM14/PY-TPM14 are currently available when will be EOL in CQ2'24
PYBTPM20/PY-TPM20 will be an alternative in CQ1'24
because new TPM supports mandatory to fit to new Windows requirement
New TPM are backward compatible with former TPMs.

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

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
27.03.2024	1.124	HDD_SSD	updated availability schedule	Y. Sugiyama
25.03.2024	1.123	base	reviced the available date for PYR2547RPN	S. Fujita
25.03.2024	1.122	others	revised the descriptuon about iRMC MicroSD card option for eLCM	Y. Sugiyama
22.03.2024	1.121	others	changed comments for TPM	KonnoH
15.03.2024	1.120	HDD_SSD	update the restriction for KIOXIA CM7	Y. Sugiyama
15.03.2024	1.120	base	reviced the restriction on PYR2547RHN/PYR2547RPN	S. Fujita
15.03.2024	1.119	LAN_FC_IB	Change wrong description of max numbers, N210P and N210TP. Change available target of BF2 100G	F. Kanega
15.03.2024	1.118	base, RAID	updated availability schedule for PRAID CP600i	T. Sudou
13.03.2024	1.117	LAN_FC_IB	Adding Broadcom 10G OCPv3, N210P and N210TP	F. Kanega
13.03.2024	1.116	base	Reviced the restriction on PYR2547RHN/PYR2547RPN	S. Fujita
11.03.2024	1.115	base	added the restriction on PYR2547RHN/PYR2547RPN	S. Fujita
08.03.2024	1.114	others	added the restriction for TPM	KonnoH
01.03.2024	1.113	HDD_SSD	added the restriction for SSD SATA PM893a/PM897a updated availability schedule	Y. Sugiyama
01.03.2024	1,112	ErP Lot9	update order code for 16GB DIMM	J. ZHAO
29.02.2024	1.111	CPU	Separate 'CPU' sheet to CPU 4th gen and CPU 5th gen	S. Fujita
29.02.2024	1.111	RAM	Revice the RAM	S. Fujita
29.02.2024	1.111	Energy Star	Changed to EOL about S26361-F3301-E541/S26361-F3301-E542 Added limitation 'Gold 6534'	S. Fujita
28.02.2024	1.110	CPU	Added 5th gen CPU	S. Fujita
28.02.2024	1.110	RAM	Added 5600MHz	S. Fujita
28.02.2024	1.110	LAN_FC_IB	Added the comment 'Will not be available the mix with 5th gen CPU' into PYBLA442L/PY-LA442	S. Fujita
28.02.2024	1.110	Energy Star	Added 5th gen CPU into PYBES24/PYBES25	S. Fujita
28.02.2024	1.110	ErP Lot9	Added 5th gen CPU and revised the comment on PYBES24/PYBES25	S. Fujita
28.02.2024	1,109	Thermal rule	Removed the comment 'not allow for PYR2547RAN' from PCIe-SSD 2.5" Mixed Use (SFF)/PCIe-SSD 2.5" Read Intensive (SFF)	S. Fujita
28.02.2024	1,109	Thermal rule	Added BlueField2 into 'Option card: PCIe Level for Thermal condition'	S. Fujita
26.02.2024	1,108	ErP Lot9	Add PYR2547RMN/PYR2547RPN in comment for PYBETL25/PYBETL26	S. Fujita
22.02.2024	1,107	LAN_FC_IB	Reviced comment "Full Hight PCIe(x16) Riser right[PYBPRE648/PY-PRE648] should be needed." for BlueField2[PYBSN402/PY-BSN402/ PYBSN412/PY-SN412]	S. Fujita
22.02.2024	1,107	base	Removed PY-TKMX0J.	S. Fujita
19.02.2024	1.106	HDD_SSD	removed the limitation about VMD/VROC for Kioxia CM7 updated availability schedule	Y. Sugiyama
19.02.2024	1.105	GFX	Support MiniDP and DP port.	M.Takaoka
16.02.2024	1.104	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
14.02.2024	1.103	RAM	Add the restriction for 96GB memory	KonnoH
09.02.2024	1.102	base	Add base unit[PYR2547RMN/PYR2547RPN]	S. Fujita
08.02.2024	1.101	base	Add Riser kit for BlueField2	S. Fujita
08.02.2024	1.101	LAN_FC_IB	Add comment for BlueField2[PYBSN402/PY-BSN402/ PYBSN412/PY-SN412]	S. Fujita
08.02.2024	1.101	Thermal rule	Add BlueField2	S. Fujita
08.02.2024	1.99	base, RAID, backup, HDD_SSD	released PSAS CP 2200-16i (NVMe/LTO), PRAID EP 3258-16i NVMe and PDUAL CP300 updated availability schedule	T. Sudou
07.02.2024	1,98	Thermal rule	revised ATD40/ATD45 to '16GB - 128GB' from '16GB - 256GB'	S. Fujita
05.02.2024	1,97	LAN_FC_IB	MCX6-LX 25G OCPv3/PCIe, P225P, P2100G released	F. Kanega
22.01.2024	1,96	base	Add comment for S26361-F1647-E302	Y. Kanai
16.01.2024	1,95	HDD_SSD	updated availability schedules	Y. Sugiyama
12.01.2024	1,94	Thermal rule	Add 'PYBBS16PDB/PYBBS32PDB/PYBBS64PDB/PYBBS12PDB /PYBBS19PEA/PYBBS38PEA/PYBBS76PEA/PYBBS15PEB'	S. Fujita
09.01.2024	1,93	LAN_FC_IB	Add BF2	F. Kanega
26.12.2023	1.92	others	Added '45°C' into 'Advanced Thermal design 45°C cannot be combined with the Flash backup unit of the RAID controllers'	S. Fujita
26.12.2023	1,91	HDD_SSD	removed the restriction for SSD SAS "Kioxia PM7" added the restriction for SSD PCIe "Kioxia CM7" removed HDD 20TB FIPS updated availability schedule	Y. Sugiyama
22.12.2023	1.90	HDD_SSD, Thermal Rule	updated PDUAL CP300	T. Sudou
20.12.2023	1,89	LAN_FC_IB	Changing available date of N2100G from CY20241Q to 3Q. Change max number of BCM5719-4P from 2 to 4(BYW, slot 5 is prohibited for BCM5719-4P)	F. Kanega
18.12.2023	1,88	base	revised Interfaces internal	J. ZHAO
13.12.2023	1,87	GFX	Add L4, L40 and RTX A6000 to NVIDIA AI Enterprise Subscription License and Support	M.Murayama
11.12.2023	1.86	base, RAID, HDD_SSD	updated availability schedule	T. Sudou
04.12.2023	1,85	GFX	Add A30X	M.Takaoka
30.11.2023	1,84	Description	eLCM is added to recommended components	J. ZHAO
29.11.2023	1.83	ErP Lot9	Change Lot9 restriction (PYBETL26) Restriction for 3.5" bae unit with 1CPU conf removed.	A. Iwata
21.11.2023	1.82	CPU	Added 'EMEA/APAC/FBR only' into 'PYBTKCPCA2' and 'PYBTKCPCA3'	S. Fujita

17.11.2023	1,81	LAN_FC_IB	Change schedule info of MCX6-LX, Broadcom 25/100G cards. Delete schedule info of QLE287x because it was released.	F. Kanega
13.11.2023	1.80	Other (iRMC)	Add "iRMC standard/legacy Option" PYBSSS3 in others sheet.	H. Ogino
10.11.2023	1.79	base	updated availability schedule for RAID	T. Sudou
01.11.2023	1.78	HDD_SSD	added the restriction about HBA/RAID for Kioxia PM7	Y. Sugiyama
26.10.2023	1.77	RAM	Rmoved DDR5 5600 memory without 96GB	H. Konno
25.10.2023	1.76	CPU	revise mistake L code number for 8470N	J. ZHAO
25.10.2023	1.76	HDD_SSD	updated the description about max qty for M.2 SATA/PCIe drives.	Y. Sugiyama
24.10.2023	1.75	Energy Star	Updated the description for PYBES24/PYBES25	S. Fujita
24.10.2023	1.75	PSU	Add description(min./max. for 500W) for PSU	S. Fujita
24.10.2023	1.75	Description	Removed 'Region kit APAC/EMEA/India'	S. Fujita
24.10.2023	1.74	RAM	Added DDR5 5600 memory	H. Konno
19.10.2023	1.73	-	change font	J. ZHAO
18.10.2023	1.72	RAID	updated Note for Intel VROC (SATA RAID)	T. Sudou
17.10.2023	1.71	Thermal rule	Update 3.5" base unit (not including Nvidia A2/L4, high Level PCIe card, high Tier OCP, Rear Bay)	J. ZHAO
17.10.2023	1.70	HDD_SSD	updated availability schedule	T. Sudou
17.10.2023	1.70	RAID	released Intel VROC (VMD NVMe RAID)	T. Sudou
16.10.2023	1.69	GFX	Update RTX 4000	M.Takaoka
13.10.2023	1.68	HDD_SSD	updated the EOL information for PCIe-SSD	Y. Sugiyama
03.10.2023	1.67	GFX	Update L40S	M.Takaoka
03.10.2023	1.65	Thermal rule	Update 3.5" base unit (not including Nvidia A2/L4, high Level PCIe card, high Tier OCP, Rear Bay)	J. ZHAO
12.10.2023	1.64	RAM	Modified required memory qty condition for HBM Cache Mode	A. Iwata
12.10.2023	1.63	CPU	Added 'EMEA only' into 'PYBTKCPCA2' and 'PYBTKCPCA3'	S. Fujita
12.10.2023	1.63	Thermal rule	Added 'EMEA only' into 'Update 3.5" base unit (including KIOXIA NVME SSD Rear bay ***)'	S. Fujita
04.10.2023	1.62	GFX	RTX 6000 power cable has been changed.(The same as L40)	M. Takaoka
04.10.2023	1,61	LAN_FC_IB	Add I350-T2 PCIe	F. Kanega
03.10.2023	1.60	RAM	Remove HBM Cache+Mirroring Mode becase Intel does not support	J. ZHAO
03.10.2023	1.59	RAID	released Intel VROC (SATA RAID)	T. Sudou
03.10.2023	1.58	others	Add new TPM	H. Konno
26.09.2023	1.56	GFX	Update A100X/A30X schedule	M. Takaoka
26.09.2023	1.56	RAM	Update schedule for HBM Cache+Mirroring Mode	J. ZHAO
25.09.2023	1,55	GFX	Update A100X/A30X schedule	M. Takaoka
25.09.2023	1,54	CPU	update order code for CPU	S. Fujita
22.09.2023	1,53	RAID, HDD_SSD	added the limitation about VROC for PCIe-SSD	Y. Sugiyama
22.09.2023	1,52	CPU	update support DIMM for each CPU	S. Fujita
22.09.2023	1.51	RAID, HDD_SSD	updated availability schedule	T. Sudou
20.09.2023	1.50	HDD_SSD	updated the description about hot plug for PCIe-SSD	Y. Sugiyama
20.09.2023	1.50	HDD_SSD	updated availability schedule added the following drives as new products -Samsung PM1653 as SSD SAS 2.5"/3.5' -Samsung PM897a/PM893a as SSD SATA 2.5"/3.5'	Y. Sugiyama
15.09.2023	1,49	LAN_FC_IB	X710-T4L OCPv3 released. QLE277x released. Change release date of QLE287x from 3Q to Oct. Add hidden row in Change history to insert the row easily. enable recommend read only option.	F.Kanega
14.09.2023	1.48	HDD_SSD	added RAID PRESET option S26361-F5659-E13	T. Sudou
14.09.2023	1.48	base, RAID, backup	updated availability schedule	T. Sudou
08.09.2023	1,47	HDD_SSD	added the EOL status for HDD SAS 15K and HDD 2.5" BC-SATA/SAS	Y.Sugiyama
04.09.2023	1,46	HDD_SSD	updated availability schedule for SSD SAS "PM7"	Y.Sugiyama
01.09.2023	1,45	Energy Star	update ES 4.0 PN	J. ZHAO
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. Takaoka
24.08.2023	1,42	GFX	Update RTX 6000 schedule	M. Takaoka
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.	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