PRIMERGY RX2540 M6
2U Rack Server

Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator, abbreviations
	Description	System Description for easier understanding
1	Base	describes base unit of RX2540 M6
2		describes rack mount kits and services
3	CPU	Order code and Infos of Intel® Xeon® Processor Scalable Family CPUs
4	RAM	DDR4 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 **S26361-F4610-L3**	<-- order code E-part (bold) -- <-- 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 **PY-VAP05**	<-- "PYB" order code (bold) for BTO(Built to Order) part <-- "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-rx2540-m6.pdf

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

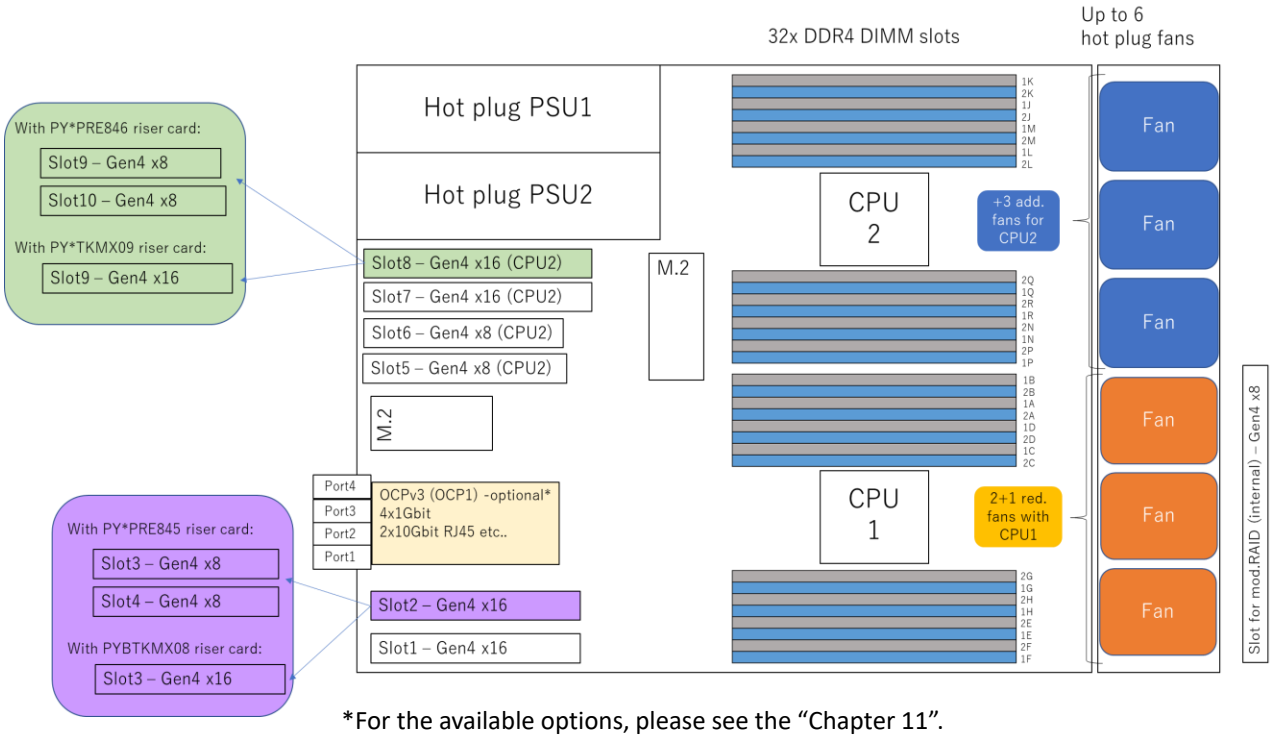
https://extranet.ts.fujitsu.com/com/tools/configure/server/Pages/default.aspx
(extranet)

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

Abbreviations

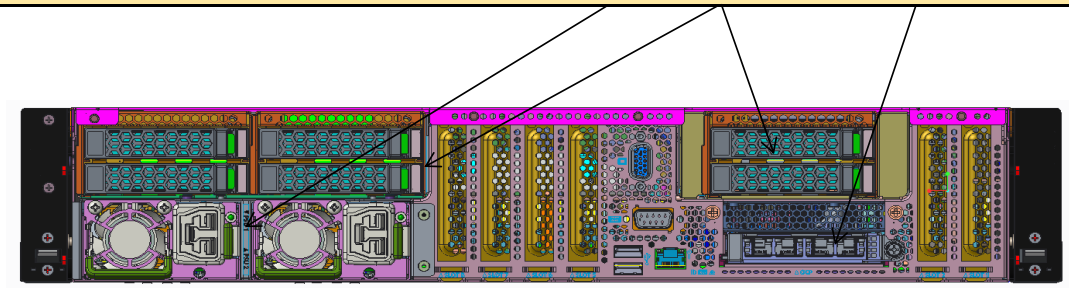
SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6GBit/s; SAS3.0 = 12GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage device), 2.5" (SFF)
SFF	Drives	small form factor (=2.5")
LFF	Drives	large form factor (=3.5")
CPU	Processor	central processing unit ("processor")
RAID	Drives, RAID	RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare
Spaces	OS	Microsoft spaces, optimized in Win2012 R2 offers software RAID and storage tiering
vSAN	OS	
storage tiering	RAID	offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")
hot data	Drives	Data which are currently being processed
cold data	Drives	Data which are currently not processed (only stored)
ODD	Drives	optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)
OS	operating system	OS=operating system - required for running, organize and administrating the server
E-Part	"Einbau-Part"	"e.g. S26361-F1234-**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 M6 schematics of the System board and fans



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

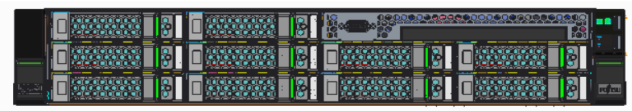
PRIMERGY RX2540 M6 rear view with 2x PSU, 6x rear SFF and OCPv3



PRIMERGY RX2540 M6 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

EDSFF hot plug NVMe

64x EDSFF NVMe

recommended components for RX2540 M6	#
Independant Mode installation	1x
PLAN CP I350-T4 4X 1000BASE-T OCPv3	1x
iRMC advanced pack	1x
Modular PSU 900W platinum hot plug	2x

Chapter 1 - base unit

Start

Power supply units & cooling
The PRIMERGY RX2540 M6 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 M6 comes equipped with ultimate performance processor heat pipes and 6 high performance single hot plug fans (N+1 redundant).
Server Management
iRMC S5 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls you can easily highlight failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.
Platform
Fujitsu Systemboard D3891-A based on Chipset Intel® C621A (Lewisburg)
> 3 serial UPI(Intel® Ultra Path Interconnect)links
> Up to two Intel® Xeon® Processor Scalable Family CPUs (Ice Lake)
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 x8 - only for modular RAID/SAS controller
Slot 1 PCIe-Gen4 x16
Slot 2 PCIe-Gen4 x16
> 4 PCIe slot low profile, 198 mm length @ second CPU:
Slot 5 PCIe-Gen4 x16
Slot 6 PCIe-Gen4 x8
Slot 7 PCIe-Gen4 x8
Slot 8 PCIe-Gen4 x16
Maximum 8 PCIe slots are possible with PCIe riser card options (4x full height, please see chapter 5)
Onboard RAID 0/1 6Gbit/s available for up to 8x SATA drives
System RAM up to DDR4-3200 MHz
8TB memory with 32x DDR4 RDIMMs (16 per CPU)
Memory speed depends on CPU and configuration, please see folder "CPU" and "RAM" for further details.
LAN
No onboard LAN, 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 VGA (15 pins)	- for base units with less HDD: front VGA option
- 2x USB 3.0 UHCI	
- 1x serial 16550 interface	Interfaces internal
- Slot for interface OCPv3 cards up to 4 LAN ports	- 2x USB 3.0
	- 2x M.2
	- 2x 4* SATA 6G

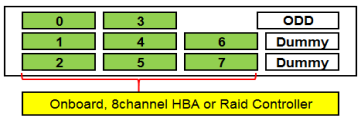
Rack version for 19" racks with 2 height units
No PSU included in base unit

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

Basic units LFF with

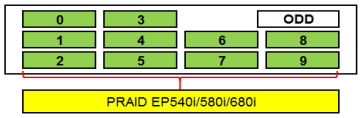
10x 3.5" bays **PYR2546R3N**
Without SAS expander
No Rear Bay option possible!

[Themal Restriction]
Refer to Thermal Rule



No Rear Bay option

Onboard SATA or
CP50xi / EP520i (in internal RAID slot)

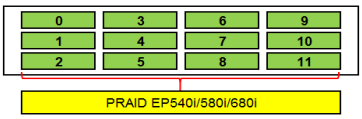


No Rear Bay option

EP540i/EP580i/EP680i (in internal RAID slot)

12x 3.5" bays **PYR2546RAN**
Without SAS expander
No Rear Bay option possible!

[Themal Restriction]
Refer to Thermal Rule

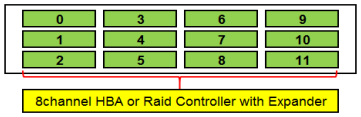


No Rear Bay option

EP540i/EP580i/EP680i (in internal RAID slot)

12x 3.5" bays **PYR2546RBN**
Including SAS expander for 8 channel controller
No Rear Bay option possible!

[Themal Restriction]
Refer to Thermal Rule



No Rear Bay option

CP50xi / EP520i (in internal RAID slot)

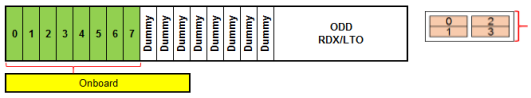
Basic units SFF with

16x 2.5" bays **PYR2546R2N**
16x 2.5" bays with PFR function **PYR2546RCN**
Without SAS expander for configuration with
- Onboard, 8channel HBA or RAID Controller or
- 2x HBA or RAID controllers (mirrored) or
- 16 channel PRAID EP540i/580i/680i
4x rear SFF option
2x rear SFF option (required 4x rear SFF option)

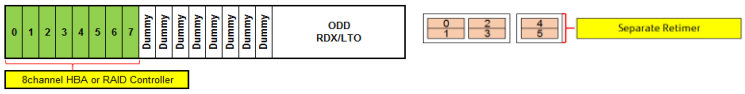
[Themal Restriction]
Refer to Thermal Rule

Upgrade kit for Front bays

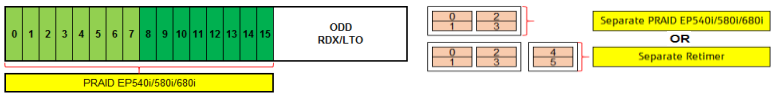
(Default Configuration)



Front: Onboard SATA
Rear 4x NVMe: EP540i/EP580i/EP680i NVMe(in PCIe slot 6)
2nd CPU is required for Rear NVMe bay

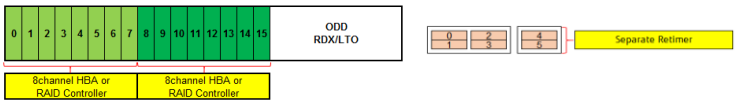


Front: CP50xi/EP520i (in internal RAID slot)
Rear 4x, 2x NVMe: Max 2x Retimer (in PCIe slot 8, 2)
2nd CPU is required for Rear NVMe bay

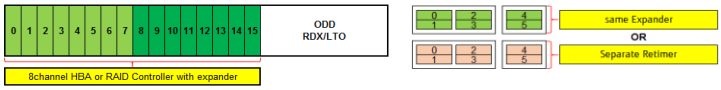
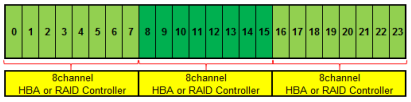
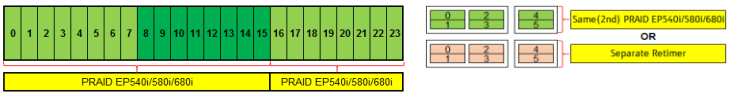
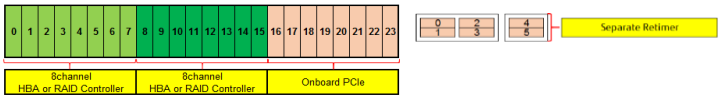
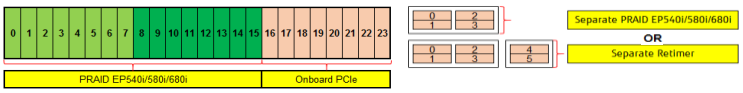


Front: EP540i/EP580i/EP680i(in internal RAID slot)
Rear 4xNVMe: EP540i/EP580i/EP680i NVMe(in PCIe slot 6)
Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)
2nd CPU is required for Rear NVMe bay

Upgrade kit for dual RAID SAS/SATA HDD/SSD **PYBCBS077**



Front: 2x CP50xi/EP520i (in internal RAID slot, PCIe Slot 1)
no mixed cards
Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)
2nd CPU is required for Rear NVMe bay

16x 2.5" bays 16x 2.5" bays with PFR function **Including SAS expander for 8 channel controller** 4x rear SFF option 2x rear SFF option (required 4x rear SFF option) [Themal Restriction] Refer to Thermal Rule	**PYR2546RDN** **PYR2546REN**	Upgrade kit for Front bays **(Default Configuration)**  Front: CP50xi/EP520i (in internal RAID slot) Rear 4x,2x SAS/SATA: Same controller as Front Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2) 2nd CPU is required for Rear NVMe
24x 2.5" bays **Without SAS expander for configuration with** **- 3x HBA or RAID controllers or** **- 2x 16 channel PRAID EP540i/580i/680i or** **- Onboard, HBA or RAID Controller and Onboard PCIe** **- 2x HBA or RAID controllers and Onboard PCIe or** **- 16 channel PRAID EP540i/580i/680i and Onboard PCIe** 4x rear SFF option 2x rear SFF option (required 4x rear SFF option) [Themal Restriction] Refer to Thermal Rule	**PYR2546RFN**	Upgrade kit for Front bays **(Default Configuration)**  **No Rear Bay option** Front: 3x CP50xi/EP520i (in internal RAID slot, PCIe Slot 1,5) No mixed cards 2nd CPU is required  Front: 2x EP540i/EP580i/EP680i(in internal RAID slot, PCIe Slot **6**) No mixed cards Rear 4x,2x SAS/SATA: Same controller as Front(2nd card) Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2) 2nd CPU is required **Upgrade kit for Front 8x PCIe SSD with 8x SAS/SATA HDD/SSD** **PYBCBE014**  **No Rear Bay option** Front SAS/SATA: Onboard SATA or CP50xi/EP520i (in PCIe slot 1) Front NVMe: Onboard PCIe, 2nd CPU is required **Upgrade kit for Front 8x PCIe SSD with 16x SAS/SATA HDD/SSD** **PYBCBE015**  Front SAS/SATA: 2x CP50xi/EP520i (in PCIe slot 1,5) No mixed cards, 2nd CPU is required Front NVMe: Onboard PCIe Rear NVMe: Max 2x Retimer(PCIe slot 8,2)  Front SAS/SATA: EP540i/EP580i/EP680i(in PCIe slot 1) Front NVMe: Onboard PCIe, 2nd CPU is required Rear 4xNVMe: EP540i/EP580i/EP680i NVMe(in PCIe slot 6) Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)

24x 2.5" bays **PYR2546RGN**

Including SAS Expander with

- **8channel HBA or RAID Controller or**
- **16 channel PRAID EP540i/580i/680i or**
- **8channel HBA or RAID Controller and Onboard PCIe or**
- **16 channel PRAID EP540i/580i/680i and Onboard PCIe or**

4x rear SFF option

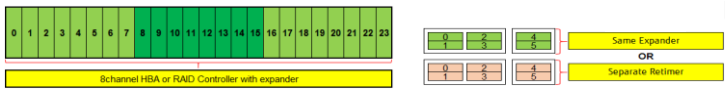
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]

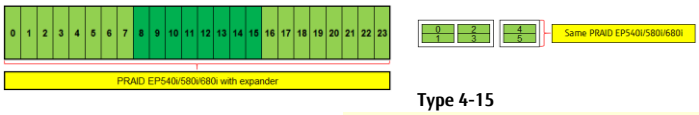
Refer to Thermal Rule

Upgrade kit for Front bays

(Default Configuration)



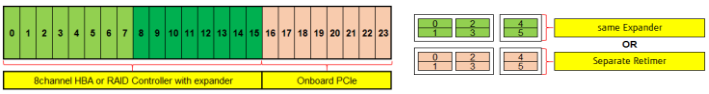
Front SAS/SATA: CP50xi/EP520i (in internal RAID slot)
Rear 4x,2x SAS/SATA: Same controller as Front
Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)
2nd CPU is required for Rear NVMe bay



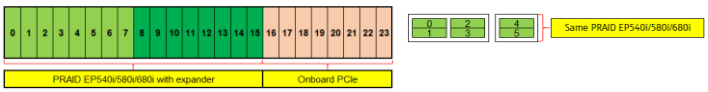
Type 4-15

Front SAS/SATA: EP540i/EP580i/EP680i(**in internal RAID slot**)
Rear 4x,2x SAS/SATA: Same controller as Front

Upgrade kit for Front 8x PCIe SSD with 16x SAS/SATA HDD/SSD **PYBCBE015**



Front SAS/SATA: CP50xi/EP520i (in PCIe slot **6**)
2nd CPU is required
Front NVMe: Onboard PCIe
Rear 4x,2x SAS/SATA: Same controller as Front
Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)



Front SAS/SATA: EP540i/EP580i/EP680i(in PCIe slot **6**)
2nd CPU is required
Front NVMe: Onboard PCIe
Rear 4x,2x SAS/SATA: Same controller as Front

24x 2.5" NVMe bays **PYR2546RHN**

Onboard PCIe with switch board

4x rear SFF option

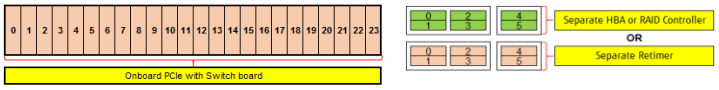
2x rear SFF option (required 4x rear SFF option)

[Themal Restriction]

Refer to Thermal Rule

Upgrade kit for Front bays

(Default Configuration)



Front NVMe: Onboard PCIe
2nd CPU is required
Rear 4x,2x SAS/SATA: CP50xi/EP5x0i/EP680i(in PCIe slot 6)
Rear 4x,2x NVMe: Max 2x Retimer (in PCIe slot 8,2)

Basic units EDSFF with

64x EDSFF NVMe bays **PYR2546R6N**

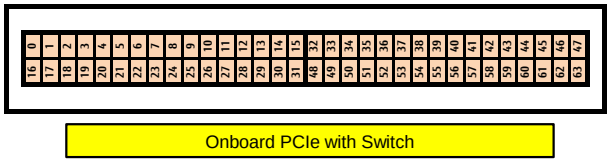
Onboard PCIe with switch

No Rear Bay option possible!

33 or more EDSFFs require 2nd CPU.

[Themal Restriction]

Refer to Thermal Rule



No Rear Bay option

Standrad Rear

Default

No possible together with left side riser.

as soon as available

Upgrade kit of Rear 4x 2.5" bays for SAS/SATA HDD/SSD

PYBBA24S3

max 1x for system

Base Unit:
16x 2.5" without SAS Exp.
16x 2.5" without SAS Exp. (PFR)
16x 2.5" with SAS Exp.
16x 2.5" with SAS Exp. (PFR)
24x 2.5" without SAS Exp.
24x 2.5" with SAS Exp.
24x 2.5" NVMe

as soon as available

Upgrade kit of Rear 4x 2.5" bays for PCIe SSD

PYBBA24PF

max 1x for system

Base Unit:
16x 2.5" without SAS Exp.
16x 2.5" without SAS Exp. (PFR)
16x 2.5" with SAS Exp.
16x 2.5" with SAS Exp. (PFR)
24x 2.5" without SAS Exp.
24x 2.5" with SAS Exp.
24x 2.5" NVMe

1x EP540i/EP580i/EP680i NVMe or
1x Retimer is required.

No possible together with right side riser.

as soon as available

Upgrade kit of Rear 2x 2.5" bays for SAS/SATA HDD/SSD

PYBBA22S4
PY-BA22S4

max 1x for system

Base Unit:
16x 2.5" without SAS Exp.
16x 2.5" without SAS Exp. (PFR)
16x 2.5" with SAS Exp.
16x 2.5" with SAS Exp. (PFR)
24x 2.5" without SAS Exp.
24x 2.5" with SAS Exp.
24x 2.5" NVMe

No possible together with right side riser.

as soon as available

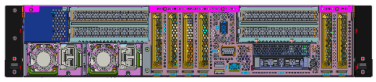
Upgrade kit of Rear 2x 2.5" bays for PCIe SSD

PYBBA22P2
PY-BA22P2

max 1x for system

Base Unit:
16x 2.5" without SAS Exp.
16x 2.5" without SAS Exp. (PFR)
16x 2.5" with SAS Exp.
16x 2.5" with SAS Exp. (PFR)
24x 2.5" without SAS Exp.
24x 2.5" with SAS Exp.
24x 2.5" NVMe

2nd Retimer is required.
No mixed with EP540i/EP580i/EP680i NVMe.



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

Full Hight PCIe Riser right
PYBPRE845
PY-PRE845
PCIe 4.0 x8 provides two full height slots (slot 3 and 4)
max 1x for system in PCIe slot 2
Base Unit: All Base unit

GFX/GPU Mounting Kit right
PYBTKMX08
PCIe 4.0 x16 provides one full height slots (slot 3)
max 1x for system in PCIe slot 2
Base Unit: 10x 3.5" 16x 2.5" without SAS Exp. 16x 2.5" without SAS Exp. (PFR) 16x 2.5" with SAS Exp. 16x 2.5" with SAS Exp. (PFR)

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

Full Hight PCIe Riser left
PYBPRE846
PY-PRE846
PCIe 4.0 x8 provides two full height slots (slot 9 and 10)
max 1x for system in PCIe slot 8
Base Unit: All Base unit

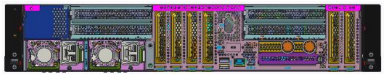
No possible together with Upgrade kit of Rear 4x 2.5" bays

GFX/GPU Mounting Kit left
PYBTKMX09
PY-TKMX09
PCIe 4.0 x16 provides one full height slots (slot 9)
max 1x for system in PCIe slot 8
Base Unit: 10x 3.5" 16x 2.5" without SAS Exp. 16x 2.5" without SAS Exp. (PFR) 16x 2.5" with SAS Exp. 16x 2.5" with SAS Exp. (PFR)

as soon as available

Liquid Cooling Kit
PYBRL05
max 1x for system
Base Unit: All base unit
Requires 2nd CPU

Special Release



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**	**PYBRRS8S**	
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	**SNP:SY-F1647E301-P**	**n/a**	to be ordered 1x per installed rack server

B

Chapter 3 - CPU

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With **one** processor 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.
* HT = Hyper Threading

** Liquid cooling is required.

			CPU Group for Thermal condition	
			10x3.5" /12x3.5" /16x2.5"/ 24x2.5"	64xEDSFF
Xeon Silver 43xx No Barlow pass support				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 10.4 GT/s				
Xeon Silver 4309Y 8C 2.8GHz 105W, Speed Select feature	**PYBCP62XG**	**PY-CP62XG**	A	A
Xeon Silver 4310 12C 2.1GHz 120W	**PYBCP62XH**	**PY-CP62XH**	A	A
Xeon Silver 4316 20C 2.3GHz 150W	**PYBCP62XK**	**PY-CP62XK**	B	B
Xeon Silver 43xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 10.4 GT/s				
Xeon Silver 4314 16C 2.4GHz 135W	**PYBCP62XJ**	**PY-CP62XJ**	A	A
Xeon Gold 53xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 5318Y 24C 2.1GHz 165W, Speed Select feature	**PYBCP62XP**	**PY-CP62XP**	B	B
Xeon Gold 5320 26C 2.2GHz 185W	**PYBCP62XQ**	**PY-CP62XQ**	C	C
Xeon Gold 53xx - Optimized Performance				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 5315Y 8C 3.2GHz 140W, Speed Select feature	**PYBCP62XL**	**PY-CP62XL**	B	B
Xeon Gold 5317 12C 3.0GHz 150W	**PYBCP62XM**	**PY-CP62XM**	B	B
Xeon Gold 63xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 / 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6336Y 24C 2.4GHz 185W, Speed Select feature	**PYBCP62XV**	**PY-CP62XV**	C	C
Xeon Gold 6330 28C 2.0GHz 205W	**PYBCP62X3**	**PY-CP62X3**	C	C
Xeon Gold 6338 32C 2.0GHz 205W	**PYBCP62X4**	**PY-CP62X4**	C	C
Xeon Gold 63xx - Optimized Performance				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6326 16C 2.9GHz 185W	**PYBCP62XT**	**PY-CP62XT**	C	C
Xeon Gold 6334 8C 3.6GHz 165W	**PYBCP62XU**	**PY-CP62XU**	D	F
Xeon Gold 6346 16C 3.1GHz 205W	**PYBCP62X5**	**PY-CP62X5**	C	F
Xeon Gold 6354 18C 3.0GHz 205W	**PYBCP62X7**	**PY-CP62X7**	C	F
Xeon Gold 6342 24C 2.8GHz 220W	**PYBCP62XR**	**PY-CP62XR**	D	F
Xeon Gold 6348 28C 2.6GHz 235W	**PYBCP62X6**	**PY-CP62X6**	D	E
Xeon Platinum 83xx				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352Y 32C 2.2GHz 205W, Speed Select feature	**PYBCP62X9**	**PY-CP62X9**	C	C
Xeon Platinum 83xx - Optimized Performane				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8358 32C 2.6GHz 250W	**PYBCP62XA**	**PY-CP62XA**	D	E
Xeon Platinum 8360Y 36C 2.4GHz 250W, Speed Select feature	**PYBCP62XC**	**PY-CP62XC**	D	E
Xeon Platinum 8362 32C 2.8GHz 265W as soon as available	**PYBCP64X1**	**PY-CP64X1**	D	F
Xeon Platinum 8368 38C 2.4GHz 270W	**PYBCP62XD**	**PY-CP62XD**	D	E
Xeon Platinum 8380 40C 2.3GHz 270W	**PYBCP62XF**	**PY-CP62XF**	D	E
Xeon Gold 63xxT - NEBS/Long Life				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933 MHz & UPI Bus @ xx GT/s				
Xeon Gold 6338T 24C 2.1GHz 165W	**PYBCP62XW**	**PY-CP62XW**	B	B
Xeon Gold 63xxN - NFV Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6330N 28C 2.2GHz 165W	**PYBCP62XY**	**PY-CP62XY**	B	B
Xeon Gold 63xxU - Single Socket				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933/3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Gold 6312U 24C 2.4GHz 185W	**PYBCP62XS**	-	C	C
Xeon Gold 6314U 32C 2.3GHz 205W	**PYBCP62X2**	-	C	C

Xeon Platinum 83xxV/P - Colud/VM Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2933/3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352V 36C 2.1GHz 195W, Speed Select feature	**PYBCP62X8**	**PY-CP62X8**	C	C
Xeon Platinum 8358P 32C 2.6GHz 240W	**PYBCP62XB**	**PY-CP62XB**	D	F
Xeon Platinum 83xxQ - Liquid Cooling				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8368Q 38C 2.6GHz 270W as soon as available	**PYBCP62XE**	**PY-CP62XE**	**	**
Xeon - SGX enclave				
64-bit Intel Xeon processor supporting HT*, DDR4 @ xxxx MHz & UPI Bus @ xx GT/s				
Xeon Gold 5318S 24C 2.1GHz 165W	**PYBCP62XN**	**PY-CP62XN**	B	B
Xeon - Media and AI Optimized				
64-bit Intel Xeon processor supporting HT*, DDR4 @ 3200 MHz & UPI Bus @ 11.2 GT/s				
Xeon Platinum 8352M 32C 2.3GHz 185W (TBD) as soon as available	**PYBCP64X2**	**PY-CP64X2**	C	C

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-TKCPC83**
Cooling kit includding 1U EVAC heatsink for the configuration with GFX/GPU mounting kit	-	**PY-TKCPC84**

C

Chapter 4 - DDR4 System memory

C

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

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

Supported memory capacities per CPU:
Up to 4TB using DDR4 RDIMM (16x 256GB DDR4 RDIMM 3DS)
Up to 2TB using DDR4 LRDIMM (16x 128GB DDR4 LRDIMM)
Up to 6TB using DCPMM + DDR4 DIMM (8x 512GB DCPMM + 8x 256GB DDR4 RDIMM 3DS)
Up to 5TB using DCPMM + DDR4 DIMM (8x 512GB DCPMM + 8x 128GB DDR4 LRDIMM)

Supported memory capacities per System (with 2CPU configuration):
Up to 8TB using DDR4 RDIMM (32x 256GB DDR4 RDIMM 3DS)
Up to 4TB using DDR4 LRDIMM (32x 128GB DDR4 LRDIMM)
Up to 12TB using DCPMM + DDR4 DIMM (16x 512GB DCPMM + 16x 256GB DDR4 RDIMM 3DS)
Up to 10TB using DCPMM + DDR4 DIMM (16x 512GB DCPMM + 16x 128GB DDR4 LRDIMM)

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

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

DDR4 DIMM ony configuration section

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

DDR4 Registered DIMM 3200MHz 1R/2R x8			
8GB (1x8GB) 1Rx8 DDR4-3200 R ECC	max 16x per CPU	**PYBME08SJ**	**PY-ME08SJ**
16GB (1x16GB) 2Rx8 DDR4-3200 R ECC	max 16x per CPU	**PYBME16SJ**	**PY-ME16SJ**
max 16x per CPU; max 32x for System			

DDR4 Registered DIMM 3200MHz 1R/2R x4			
16GB (1x16GB) 1Rx4 DDR4-3200 R ECC	max 16x per CPU	**PYBME16SJ2**	**PY-ME16SJ2**
32GB (1x32GB) 2Rx4 DDR4-3200 R ECC	max 16x per CPU	**PYBME32SJ**	**PY-ME32SJ**
64GB (1x64GB) 2Rx4 DDR4-3200 R ECC	max 16x per CPU	**PYBME64SJ**	**PY-ME64SJ**
max 16x per CPU; max 32x for System			

DDR4 Registered DIMM 3200MHz 3DS 4R/8R x4			
128GB (1x128GB) 4Rx4 DDR4-3200 R 3DS ECC	max 16x per CPU	**PYBME12SJ**	**PY-ME12SJ**
256GB (1x256GB) 8Rx4 DDR4-3200 R 3DS ECC	max 16x per CPU	**PYBME25SJ**	**PY-ME25SJ**
max 16x per CPU; max 32x for System			

DDR4 LR Registered DIMM 3200MHz 4R x4			
64GB (1x64GB) 4Rx4 DDR4-3200 LR ECC	max 16x per CPU	**PYBME64EH**	**PY-ME64EH**
128GB (1x128GB) 4Rx4 DDR4-3200 LR ECC	max 16x per CPU	**PYBME12EH**	**PY-ME12EH**
max 16x per CPU; max 32x for System			

Optane PMem configuration section

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

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

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

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
max 1x per CPU; max 2x for System			
Available Memory Packages (8pcs package)		**order code (BTO)**	**order code (loose delivery)**
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
192GB (6x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ	-
max 1x per CPU; max 2x for System			
Available Memory Packages (8pcs package)		**order code (BTO)**	**order code (loose delivery)**
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (6pcs package)		order code (BTO)	order code (loose delivery)
96GB (6x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME96SJ	-
192GB (6x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME19SJ	-
384GB (6x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME38SJ	-
max 1x per CPU; max 2x for System			
Available Memory Packages (8pcs package)		**order code (BTO)**	**order code (loose delivery)**
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

Optane PMem 128GB (Barlow pass)	order code (BTO)	order code (loose delivery)

256GB (2x128GB) Optane PMem-3200	max 1x per CPU	**PYBME25PAL**	-
max 1x per CPU; max 2x for System			

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

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

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

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

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

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

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
64GB (4x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME64SJ2	-
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ3	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ3	-
512GB (4x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	PYBME51SJ2	-
max 1x per CPU; max 2x for System			
Available Memory Packages (8pcs package)		**order code (BTO)**	**order code (loose delivery)**
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
64GB (4x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME64SJ2	-
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ3	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ3	-
512GB (4x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	PYBME51SJ2	-
1024GB (4x256GB) 8Rx4 DDR4-3200 3DS ECC	max 1x per CPU	PYBME10SJ2	-
max 1x per CPU; max 2x for System			
Available Memory Packages (8pcs package)		**order code (BTO)**	**order code (loose delivery)**
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME12SJ2	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME25SJ2	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	PYBME51SJ	-
1024GB (8x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	PYBME10SJ	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (4pcs package)		order code (BTO)	order code (loose delivery)
128GB (4x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME12SJ3**	-
256GB (4x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME25SJ3**	-
512GB (4x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME51SJ2**	-
1024GB (4x256GB) 8Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME10SJ2**	-
max 1x per CPU; max 2x for System			

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME12SJ2**	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME25SJ2**	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME51SJ**	-
1024GB (8x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME10SJ**	-
2048GB (8x256GB) 8Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME20SJ**	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME12SJ2**	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME25SJ2**	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME51SJ**	-
1024GB (8x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME10SJ**	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
128GB (8x16GB) 1Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME12SJ2**	-
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME25SJ2**	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME51SJ**	-
1024GB (8x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME10SJ**	-
2048GB (8x256GB) 8Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME20SJ**	-
max 1x per CPU; max 2x for System			

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

Available Memory Packages (8pcs package)		order code (BTO)	order code (loose delivery)
256GB (8x32GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME25SJ2**	-
512GB (8x64GB) 2Rx4 DDR4-3200 R ECC	max 1x per CPU	**PYBME51SJ**	-
1024GB (8x128GB) 4Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME10SJ**	-
2048GB (8x256GB) 8Rx4 DDR4-3200 3DS ECC	max 1x per CPU	**PYBME20SJ**	-
max 1x per CPU; max 2x for System			

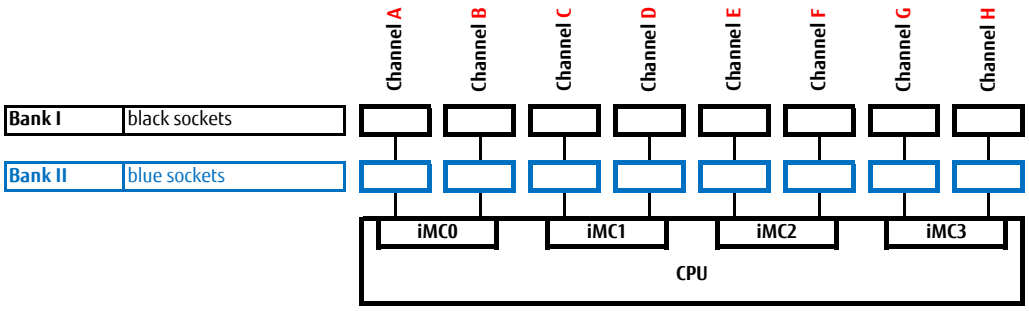
D

Detailed information

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

	Configuration		Available Capacity	
	DIMM	CPU	Normal Mode	Mirroring Mode
Min. Memory	1 Module / CPU	with one CPU	8GB: 8GB x1	-
	8 Module / CPU	with one CPU	-	32GB: 8GBx8x50%
Max. Memory per CPU	16 Modules / CPU	with two CPU	4TB: 256GB x16	2TB: 256GBx16x50%
Max. Memory per System	32 Modules / System	with two CPU	8TB: 256GB x32	4TB: 256GBx32x50%

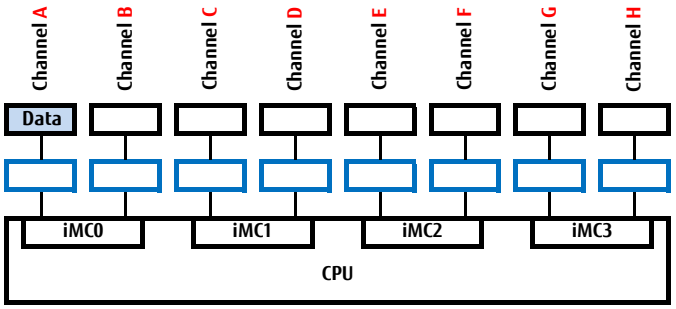
The memory sockets on the Systemboards are color coded



Normal Mode population DDR4 DIMM only

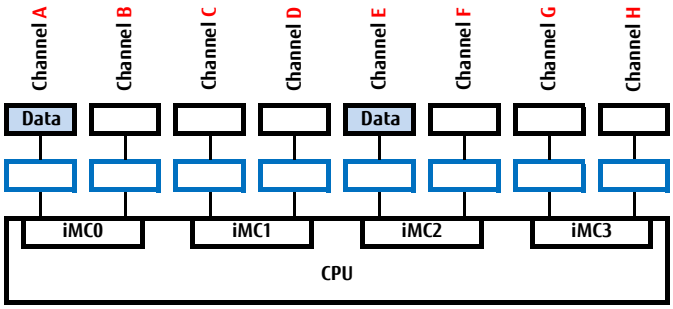
Normal Mode requires 1x, 2x, 4x, 6x, 8x, 12x or 16x DIMM configuration per CPU.
for 2x or more than 2x DIMM configuration,
Between Chanel A-E/C-G/B-F/D-H, balanced configuration is required. same bank of each chanel need to be populatd.
Between Chanel A-C-E-G/B-D-F-H, each chanel capacity need to be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

1 DIMMs for 1CPU



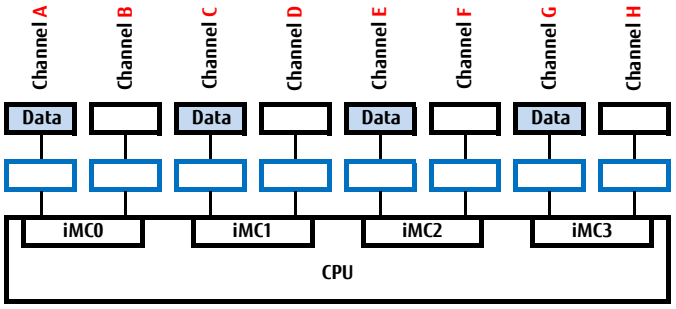
2 DIMMs for 1CPU

2x identical memory modules need to be populated.



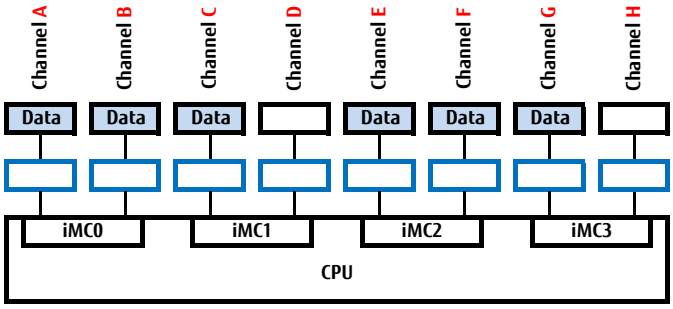
4 DIMMs for 1CPU

4x identical memory modules need to be populated.



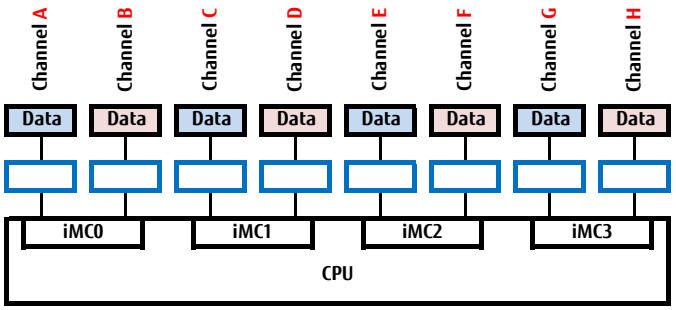
6 DIMMs for 1CPU

6x identical memory modules need to be populated.



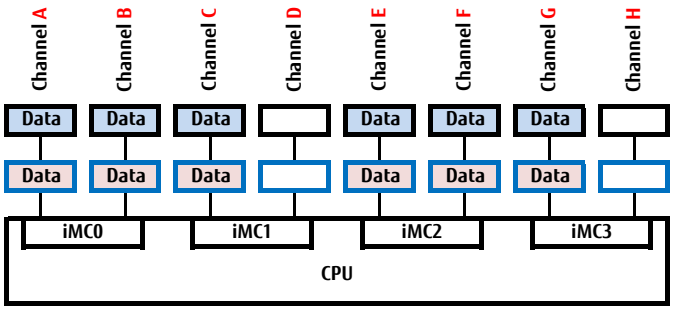
8 DIMMs for 1CPU

4x identical memory modules need to be populated.



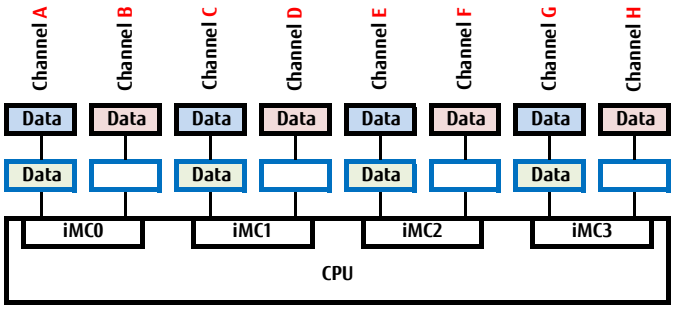
12 DIMMs for 1CPU

6x identical memory modules need to be populated.



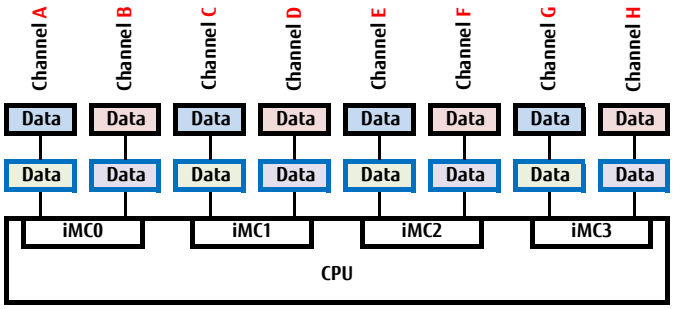
12 DIMMs for 1CPU

4x identical memory modules need to be populated.



16 DIMMs for 1CPU

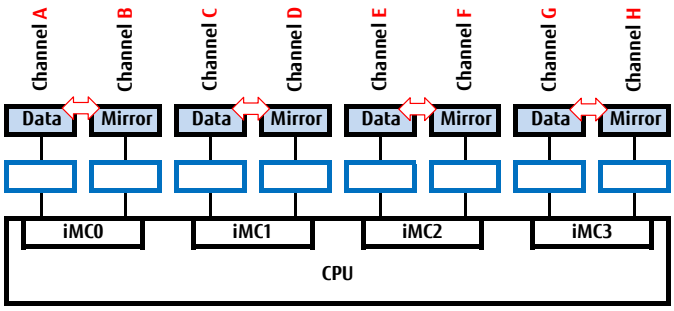
4x identical memory modules need to be populated.



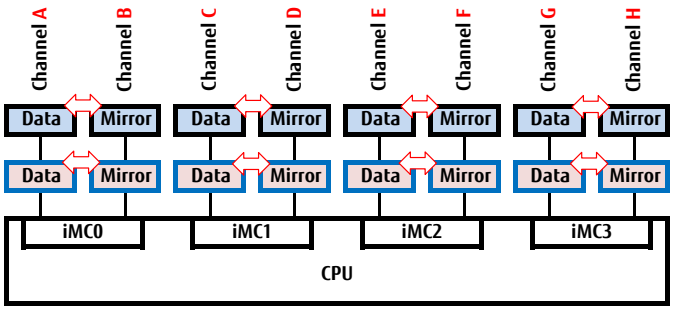
Mirroing Mode population DDR4 DIMM only

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

8 DIMMs for 1CPU



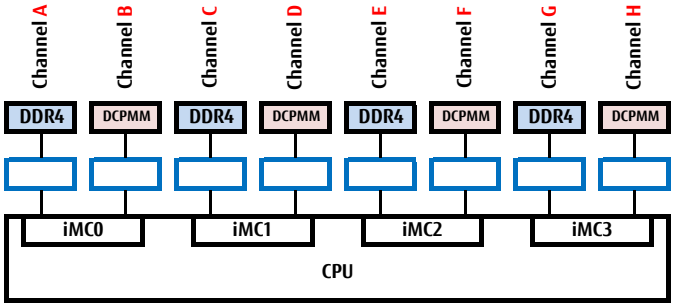
16 DIMMs for 1CPU



Normal Mode population DDR4 DIMM with DCPMM

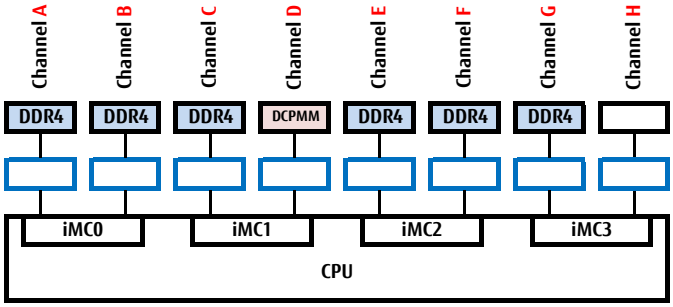
4x DDR4 + 4x DCPMM for 1CPU

AD, MM is available



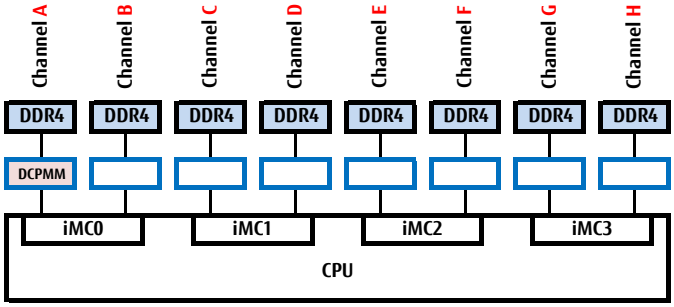
6x DDR4 + 1x DCPMM for 1CPU

only AD is available



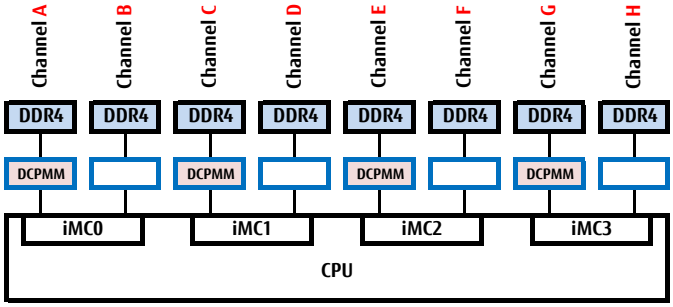
8x DDR4 + 1x DCPMM for 1CPU

only AD is available



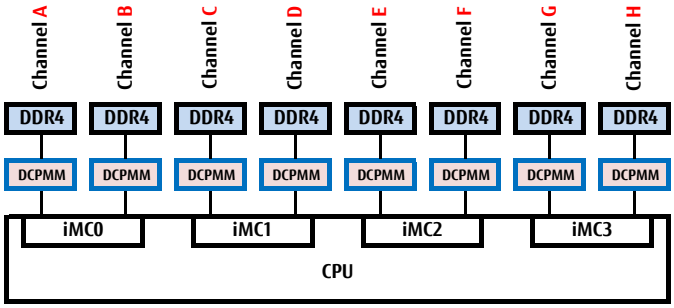
8x DDR4 + 4x DCPMM for 1CPU

AD, MM is available



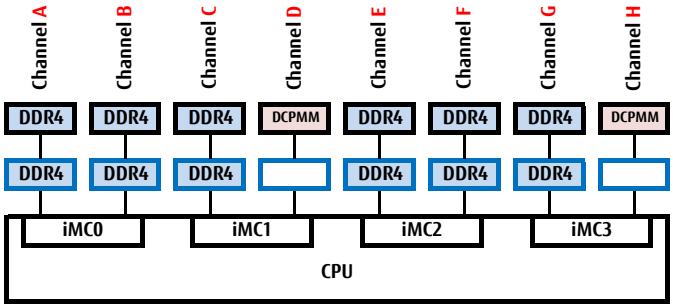
8x DDR4 + 8x DCPMM for 1CPU

AD, MM is available



12x DDR4 + 2x DCPMM for 1CPU

only AD is available

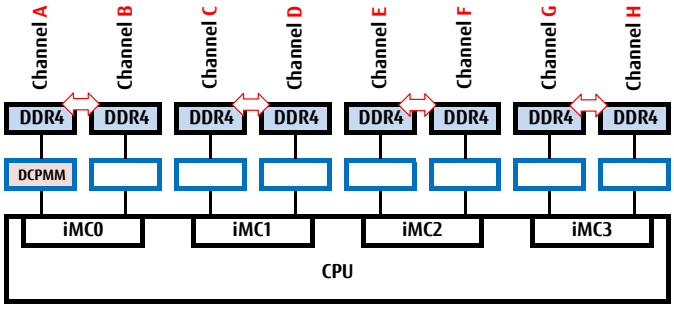


Mirroing Mode population DDR4 DIMM with DCPMM

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

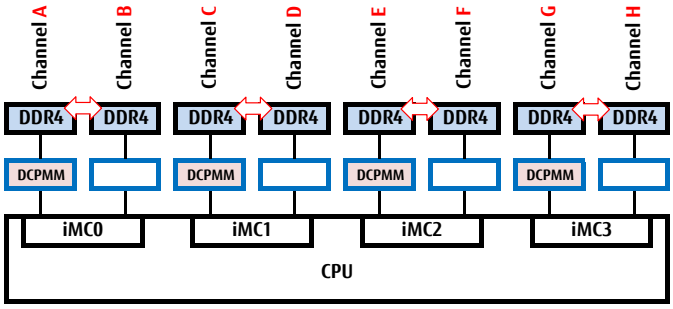
8x DDR4 + 1x DCPMM for 1CPU

only AD is available



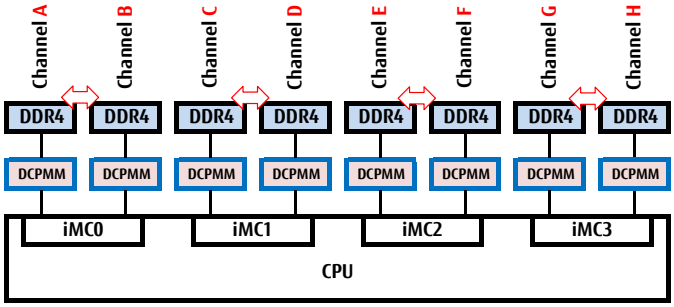
8x DDR4 + 4x DCPMM for 1CPU

only AD is available



8x DDR4 + 8x DCPMM for 1CPU

only AD is available



Chapter 5 - Graphics options

D

PYBVAP05
PY-VAP05
Front VGA connector (15-pin)
Front VGA connector (15-pin) including cable and front connector
Not for 12x3.5", 24x2.5", 64xEDSFF base unit.
max. 1x per system

Optional Front VGA
only possible for
onboard graphics

Not support at 1st Release

S26361-F4066-E601
S26361-F4066-L401
PGRA CP NVIDIA Quadro P400
NVIDIA Quadro
2GB PCIe 3.0 x16
Connectors: 3x Mini-DP
no cable kits included
cablse must be ordered seperately
Triple head + professional 2-D + 3-D
supported for Windows OS
support for Linux OS
Low profile bracket
max. 1x per system

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

The optional NVIDIA Quadro P400 graphic card offers triple head operation and full 3D video support.
The cables kit is not included. It is necessary to order cable kit.
Remote Video direction via iRMC must be disabled.

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

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

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

NVIDIA RTX4000 / RTX A6000 / A40 GPU
NVIDIA A100

The different GPU mixed configuration does not support.

PYBTKMX08
GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2

PYBTKMX09
PY-TKMX09
GFX/GPU Mounting Kit left in PCIe slot 8
max. 1x per system,
needs 2nd CPU.

PY-CBG010
~~GFX/GPU upgrade kit~~
~~Cable Kit to install one GFX/GPU card ex works~~
~~includes different power cables for released cards~~

PYBTKMX08
GFX/GPU Mounting Kit right
max. 1x per system in PCIe slot 2

PYBTKMX07
PY-TKMX07
Telsa V100S Mounting kit
needs 1x per **A100, A40, RTX A6000**

PYBTKMX09
PY-TKMX09
GFX/GPU Mounting Kit left
max. 1x per system in PCIe slot 8
needs 2nd CPU.

PYBTKMX07
PY-TKMX07
Telsa V100S Mounting kit
needs 1x per **A100, A40, RTX A6000**

Not support at 1st Release

S26361-F4025-E540
S26361-F4025-L540
PGRA CP Quadro RTX4000
NVIDIA Quadro RTX4000 Card with 2304 graphic cores & 8GB GDDR6 RAM. PCIe Gen3
power cables from PSU need to be ordered separately. 900W or higher PSU is recommended
PCIe *16 (Gen3) - single width - occupies space for one PCIe slots, Full height bracket
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
Display connector:
DisplayPort × 3
max. 2x per system

S26361-F4025-E730
S26361-F4025-L730
PY NVIDIA A10
NVIDIA A10 Card with xxxx graphic cores & xxGB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordered separately.
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
Display connector:
No DisplayPort
max. 2x per system

Not support at 1st Release

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

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

Not support at 1st Release

S26361-F4025-E330
S26361-F4025-L330
PY NVIDIA A100 PCIe
NVIDIA Tesla A100 Card with 6912 graphic cores & 40GB HBM2 memory. **PCIe Gen4**
power cables from PSU need to be ordeied separately. 900W or higher PSU is recommended
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

Not support at 1st Release

S26361-F4025-E530
S26361-F4025-L530
PY NVIDIA A40
NVIDIA A40 Card with xxxx graphic cores & 48GB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordeied separately.
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket
Display connector:
DisplayPort × 3
** not support for DP connectors!!
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

Not support at 1st Release

S26361-F4025-E830
S26361-F4025-L830
PY NVIDIA RTX A6000
NVIDIA RTX A6000 Card with xxxx graphic cores & 48GB GDDR6 RAM. PCIe Gen4
power cables from PSU need to be ordeied separately.
PCIe *16 (Gen4) - double width - occupies space for two PCIe slots, Full height bracket
Display connector:
DisplayPort × 4
Limitation:
Refer to "Limitation with GFX/GPU card for each base unit"
max. 2x per system

Not support at 1st Release

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

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

Limitation with GFX/GPU card for each base unit
- A10/A40/A100/RTX4000/RTX A6000: refer to the configuration including GFX/GPU Mount Kit in Chapter 18 - Thermal Rule
- NVIDIA T4: refer to the configuration including Nvidia T4 in Chapter 18 - Thermal Rule

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

NVIDIA RTX A6000
NVIDIA A40/ T4/ A100

The different GPU mixed configuration does not support.

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

VMWare and Citrix OS does not support at 1st release.
That means NVIDIA GRID License doesn't support at 1st release.

VMWare and Citrix OS does not support at 1st release.
That means NVIDIA GRID License doesn't support at 1st release.

Chapter 6 - Drive cage and PCIe riser options

F

Rear HDD/SSD cage option

rear 4x2.5" SAS/SATA HDD/SSD SFF as soon as available

PYBBA24S3 Option REAR SAS/SATA HDD/SSD	
Provides 4 rear hot-plug bays for SAS/SATA HDD/SSD SFF	
Note: Temperature Max 30°C and CPU TDP Max 165W	
Note: Not support with 10x3.5", 12x3.5", 64xEDSFF base unit	
Note: Consumes space for PCIe riser x8 left	
max. 1x per system	
Includes all necessary cage, backplane and cables	

rear 4x2.5" PCIe-SSD SFF as soon as available

PYBBA24PF Option REAR PCIe SSD SFF	
Provides 4 rear hot-plug bays for PCIe-SSD SFF devices	
Note: 2nd CPU is required. Separate Retimer card or EP540/580i/680i NVMe is required. Retimer card occupies PCIe slot#2.EP540/580i/680i occupies PCIe slot#6. If rear 2x2.5" PCIe-SSD SSF is orderd, separate Retimer card is required for this option and EP540/580i/680i is not allowed.	
Note: Temperature Max 30°C and CPU TDP Max 165W	
Note: Not support with 10x3.5", 12x3.5", 64xEDSFF base unit	
Note: Consumes space for PCIe riser x8 left	
max. 1x per system	
Includes all necessary cage, backplane and cables	

rear 2x2.5" SAS/SATA HDD/SSD SFF as soon as available

PYBBA22S4 Option REAR SAS/SATA HDD/SSD	
PY-BA22S4 Upgrade REAR SAS/SATA HDD/SSD	
Provides 2 rear hot-plug bays for SAS/SATA HDD/SSD SFF	
Note: rear 4x2.5" SAS/SATA HDD/SSD SFF is required.	
Note: Consumes space for PCIe riser x8 right	
max. 1x per system	
Includes all necessary cage, backplane and cables	

rear 2x2.5" PCIe-SSD SFF as soon as available

PYBBA22P2 Option REAR PCIe SSD SFF	
PY-BA22P2 Upgrade REAR PCIe SSD SFF	
Provides 2 rear hot-plug bays for PCIe-SSD SFF devices	
Note: rear 4x2.5" PCIe-SSD SFF is required. 2nd Retimer card is required. Retimer card occupies PCIe slot#2.	
Note: Consumes space for PCIe riser x8 right	
max. 1x per system	
Includes all necessary cage, backplane and cables	

Detailed PCIe slot description:

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

onboard SATA controller with SW-RAID — max number of drives depends on base units

onboard controller for SATA HDD or SSD drives **Windows 2016/2019 support:** Windows driver 7.5.12.1015 - 7.5.12.1012 or later is required					
8 ports 3, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1, 10	2x	**onboard, included**

intenal HBA and RAID controller, no 2nd Level cache

internal drive RAID / HBA controllers for SAS, SATA HDD or SSD drives					
PRAID CP500i RAID Contr.	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 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					
PSAS CP503i HBA SAS Contr.	No Cache	HBA, no RAID	3x	**PYBSC3FBL**	**PY-SC3FB**
Windows 2016/2019 support: Driver for PSAS CP50x 2.61.29.00 or later is required 8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality					
PSAS CP503i HBA SAS Contr. for vSAN	No Cache	HBA, no RAID	3x	**PYBSC3FBVL**	**PY-SC3FBV**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality; released for VMWare vSAN / vSphere in PYR2546RFN / PYR2546RGN					

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

internal drive RAID / SAS controllers for NVMe and SAS, SATA HDD or SSD drives					
PRAID EP520i RAID Contr. 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 devices without expander includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
PRAID EP540i RAID LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F4042-E214**	**S26361-F4042-L514**
PRAID EP580i RAID 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 devices without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516 (FYI: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
PRAID EP680i RAID LP	8GB Cache	RAID 0,1,10,5,50,6,60	2x	**PYBSR4C6L**	**PY-SR4C6**
SAS SSD support: as soon as avaiable 16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 16 SAS/SATA devices without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx / EP6xx in rear PCIe slot: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

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

internal drive RAID / SAS controllers for NVMe and SAS, SATA HDD or SSD drives					
PRAID EP540i RAID NVMe LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F4042-E224**	**S26361-F4042-L514**
PRAID EP580i RAID NVMe LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F4042-E228**	**S26361-F4042-L508**
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3516, **for Chassis Variant -PYR2546R2N, PYR2546RCN and PYR2546RFN** up to 4 x4 NVMe devices are supported. (the configuration for SAS/SATA only requires a different order number, please see above) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516 (FYI: S26361-F4042-E214 and E224, S26361-F4042-E208 and E228 are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					
PRAID EP680i RAID NVMe LP	8GB Cache	RAID 0,1,10,5,50,6,60	1x	**PYBSR4C62L**	**PY-SR4C6**
For PY-SR4C6, to support NVMe devices, Firmware 52.15.0-4045 or later is required. PYBSR4C62L is shipped with the required Firmware 16 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, based on LSI SAS3916, **for Chassis Variant -PYR2546R2N, PYR2546RCN and PYR2546RFN** up to 4 x4 NVMe devices are supported. (the configuration for SAS/SATA only requires a different order number, please see above) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6L and PYBSR4C62L are identical products. The 2nd Order number was only introduced for explicite ordering and cabling)					

FBU cannot be combined with Advanced Thermal design.
up to **2x FBU** can be integrated per System

Expander configurations: Use PRAID EPxxxi for optimal performance

Cable kit for upgrade cards: For upgrade, L-parts Cable kit is available.
Cable Kit for EP5xxi/CP5xxi: PY-CBS081 *as soon as available*
Cable Kit for EP6xxi/CP6xxi: PY-CBS082 *as soon as available*

G

external SAS controller

HBA controller for ext. drives SAS, SATA HDD or SSD drives					
PSAS CP500e HBA SAS Contr. FH	No Cache	HBA, no RAID	2x	**PYBSC3FBE**	**PY-SC3FBE**
PSAS CP500e HBA SAS Contr. LP	No Cache	HBA, no RAID	2x	**PYBSC3FBEL**	
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP or FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					

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

RAID / SAS, SATA controllers for external drives with Cache and opt. Flash Backup Unit					
PRAID EP540e RAID Contr. FH	4GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F4063-E4**	**S26361-F4063-L504**
PRAID EP540e RAID Contr. LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F4063-E204**	
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) includes Fastpath and SafeStore Advanced SW-Licence requires 1x FH or LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
PRAID EP680e RAID Contr. FH	8GB Cache	RAID 0,1,10,5,50,6,60	2x	**PYBSR4C6E**	**PY-SR4C6E**
PRAID EP680e RAID Contr. LP	8GB Cache	RAID 0,1,10,5,50,6,60	2x	**PYBSR4C6EL**	
as soon as available 8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) includes Fastpath and SafeStore Advanced SW-Licence requires 1x FH or LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3916					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx / EP6xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

internal controllers for PCIe SSD SFF (2,5" NVMe PCIe) drives, no HW-RAID

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

onboard SlimSAS Connector, from CPU to Backplane for 4x internal 2,5" NVMe SSD PCIe SSD SFF (2,5" NVMe PCIe)					
8Gb/s PCIe x8	Intel CPU	No Cache	No HW-RAID	4x	**onboard**

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	**PYBPC404L**	**PY-PC404L**
No HW RAID, No Cache, simple route-through; device management by INTEL VMD					
divides PCIe4.0 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.					

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Chapter 8 - ODD optical disk drives

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

H
Config with 1x 9.5mm bay

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

I

Chapter 9 - backup drives

RX2540 M6 offers 1.6" bay for accessible drive for basic units with 8x or 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

S26361-F3787-E1 **S26361-F3787-L1**
LTO 6 tape drive (w/o tape)
LTO6, 2.5TB, 160MB/s, SAS 2.0, 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

PYBSC3FB1L
PY-SC3FB
PSAS CP503i HBA SAS Controller
based on LSI SAS3408
Windows 2016/2019 support: Driver for PSAS CP50x 2.61.29.00 or later is
requires 1x LP PCIe 3.0 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

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

HDD Classes:
Economic (ECO) SATA: Entry Class Drives.
Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.
Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 12G .
Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.

Warranty:
SSD and SATA DOM have a built-in Wear-Out indicator. In this case the warranty for such a component, as an exception to the system warranty, is restricted to the time period until the indicator reaches the exhaust level.

2.5" (SFF) SAS and SATA SSD

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

based on **Seagate Nytro3732** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**PYBSS40NGA**	**PY-SS40NGA**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**PYBSS80NGA**	**PY-SS80NGA**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		**PYBSS16NGA**	**PY-SS16NGA**
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**PYBSS40NGW**	**PY-SS40NGW**
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**PYBSS80NGW**	**PY-SS80NGW**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	**PYBSS16NGW**	**PY-SS16NGW**

max. 30x - depending on base unit & configuration

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

based on **Seagate Nytro3532** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**PYBSS80NPF**	**PY-SS80NPF**
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**PYBSS16NPF**	**PY-SS16NPF**
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**PYBSS32NPF**	**PY-SS32NPF**
6.4TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		**PYBSS64NPF**	**PY-SS64NPF**

max. 30x - depending on base unit & configuration

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

based on **Seagate Nytro3332** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**PYBSS96NNJ**	**PY-SS96NNJ**
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**PYBSS19NNH**	**PY-SS19NNH**
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**PYBSS38NNH**	**PY-SS38NNH**
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**PYBSS76NNH**	**PY-SS76NNH**
15.36TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		**PYBSS15NNG**	**PY-SS15NNG**

max. 30x - depending on base unit & configuration

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

based on **Samsung SM883** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5733-E240**	**S26361-F5733-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5733-E480**	**S26361-F5733-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5733-E960**	**S26361-F5733-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5733-E192**	**S26361-F5733-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5588-E384**	**S26361-F5588-L384**

max. 30x - depending on base unit & configuration

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

based on **Micron 5300 MAX** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5776-E240**	**S26361-F5776-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5776-E480**	**S26361-F5776-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5776-E960**	**S26361-F5776-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5776-E192**	**S26361-F5776-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		**S26361-F5776-E384**	**S26361-F5776-L384**

max. 30x - depending on base unit & configuration

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

based on **Micron 5300 PRO** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		**S26361-F5783-E240**	**S26361-F5783-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		**S26361-F5783-E480**	**S26361-F5783-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		**S26361-F5783-E960**	**S26361-F5783-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5		**S26361-F5783-E192**	**S26361-F5783-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2		**S26361-F5783-E384**	**S26361-F5783-L384**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6		**S26361-F5783-E768**	**S26361-F5783-L768**

max. 30x - depending on base unit & configuration

EMEIA only

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

based on **Samsung PM883** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E240**	**S26361-F5802-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E480**	**S26361-F5802-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E960**	**S26361-F5802-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E192**	**S26361-F5802-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E384**	**S26361-F5802-L384**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5802-E768**	**S26361-F5802-L768**

max. 30x - depending on base unit & configuration

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2.5" (SFF) Hard drives

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	15 000	SAS 12Gb/s	512n		**S26361-F5727-E530**	**S26361-F5727-L530**
600GB	15 000	SAS 12Gb/s	512n		**S26361-F5727-E560**	**S26361-F5727-L560**
900GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E590**	**S26361-F5531-L590**
max. 30x - depending on base unit & configuration						

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	as soon as available	**S26361-F5729-E160**	**S26361-F5729-L160**
600GB	10 000	SAS 12Gb/s	512n		**PYBSH601EB**	**PY-SH601EB**
900GB	10 000	SAS 12Gb/s	512n		**S26361-F5729-E190**	**S26361-F5729-L190**
1.2TB	10 000	SAS 12Gb/s	512n	as soon as available	**S26361-F5729-E112**	**S26361-F5729-L112**
1.2TB	10 000	SAS 12Gb/s	512n		**PYBSH121EB**	**PY-SH121EB**
300GB	10 000	SAS 12Gb/s	512n	SED	**PYBSH301EU**	**PY-SH301EU**
600GB	10 000	SAS 12Gb/s	512n	SED as soon as available	**PYBSH601EU**	**PY-SH601EU**
600GB	10 000	SAS 12Gb/s	512n	SED	**PYBSH601EV**	**PY-SH601EV**
1.2TB	10 000	SAS 12Gb/s	512n	SED as soon as available	**PYBSH121EU**	**PY-SH121EU**
1.2TB	10 000	SAS 12Gb/s	512n	SED	**PYBSH121EV**	**PY-SH121EV**
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*
900GB	10 000	SAS 12Gb/s	512e		**S26361-F5730-E190**	**S26361-F5730-L190**
1.8TB	10 000	SAS 12Gb/s	512e	as soon as available	**S26361-F5730-E118**	**S26361-F5730-L118**
1.8TB	10 000	SAS 12Gb/s	512e		**PYBSH181D8**	**PY-SH181D8**
2.4TB	10 000	SAS 12Gb/s	512e	as soon as available	**S26361-F5543-E124**	**S26361-F5543-L124**
2.4TB	10 000	SAS 12Gb/s	512e		**PYBSH241D8**	**PY-SH241D8**
1.8TB	10 000	SAS 12Gb/s	512e	SED as soon as available	**PYBSH181DU**	**PY-SH181DU**
1.8TB	10 000	SAS 12Gb/s	512e	SED	**PYBSH181DV**	**PY-SH181DV**
2.4TB	10 000	SAS 12Gb/s	512e	SED as soon as available	**S26361-F5582-E124**	**S26361-F5582-L124**
2.4TB	10 000	SAS 12Gb/s	512e	SED	**PYBSH241DV**	**PY-SH241DV**
max. 30x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SAS 12Gb/s	512n	as soon as available	**S26361-F5600-E100**	**S26361-F5600-L100**
2TB	7 200	SAS 12Gb/s	512n	as soon as available	**S26361-F5600-E200**	**S26361-F5600-L200**
max. 30x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
1TB	7 200	SATA 6Gb/s	512n	as soon as available	**S26361-F3956-E100**	**S26361-F3956-L100**
2TB	7 200	SATA 6Gb/s	512n	as soon as available	**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 **Seagate Nytro3732** drives

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

max. 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** 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 **Seagate Nytro3532** drives

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

max. 12x - depending on base unit & configuration

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SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on **Samsung SM883** drives							
Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5732-E240**	**S26361-F5732-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5732-E480**	**S26361-F5732-L480**
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5732-E960**	**S26361-F5732-L960**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5732-E192**	**S26361-F5732-L192**
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3,6		**S26361-F5589-E384**	**S26361-F5589-L384**
max. 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 MAX** drives							
Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5775-E240**	**S26361-F5775-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5775-E480**	**S26361-F5775-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5775-E960**	**S26361-F5775-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		**S26361-F5775-E192**	**S26361-F5775-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		**S26361-F5775-E384**	**S26361-F5775-L384**
max. 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 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							

EMEIA only

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray							
based on **Samsung PM883** drives							
Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E240**	**S26361-F5801-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E480**	**S26361-F5801-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E960**	**S26361-F5801-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E192**	**S26361-F5801-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E384**	**S26361-F5801-L384**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		**S26361-F5801-E768**	**S26361-F5801-L768**
max. 12x - depending on base unit & configuration							

3.5" (LFF) Hard drives

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

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

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5728-E130**	**S26361-F5728-L130**
600GB	10 000	SAS 12Gb/s	512n	as soon as available	**S26361-F5728-E160**	**S26361-F5728-L160**
600GB	10 000	SAS 12Gb/s	512n		**PYBTH601E7**	**PY-TH601E7**
1.2TB	10 000	SAS 12Gb/s	512n	as soon as available	**S26361-F5728-E112**	**S26361-F5728-L112**
1.2TB	10 000	SAS 12Gb/s	512n		**PYBTH121E7**	**PY-TH121E7**
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	as soon as available	**S26361-F5731-E118**	**S26361-F5731-L118**
1.8TB	10 000	SAS 12Gb/s	512e		**PYBTH181D7**	**PY-TH181D7**
2.4TB	10 000	SAS 12Gb/s	512e	as soon as available	**S26361-F5569-E124**	**S26361-F5569-L124**
2.4TB	10 000	SAS 12Gb/s	512e		**PYBTH241D7**	**PY-TH241D7**
max. 12x - depending on base unit & configuration						

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
2TB	7 200	SAS 12Gb/s	512n		**PYBCH2T7G4**	**PY-CH2T7G4**
4TB	7 200	SAS 12Gb/s	512n		**PYBCH4T7G4**	**PY-CH4T7G4**
max. 12x - depending on base unit & configuration						

18TB HDDs are NOT released with PRAID EP680i (PYBSR4C6L/PY-SR4C6)

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

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

	6TB	7 200	SATA 6Gb/s	512e		PYBBH6T7E9	PY-BH6T7E9
	8TB	7 200	SATA 6Gb/s	512e		S26361-F5638-E800	S26361-F5638-L800
	12TB	7 200	SATA 6Gb/s	512e		PYBBHCT7E4	PY-BHCT7E4
	14TB	7 200	SATA 6Gb/s	512e	as soon as available	PYBBHET7E4	PY-BHET7E4
	16TB	7 200	SAS 12Gb/s	512e	as soon as available	S26361-F3904-E160	S26361-F3904-L160
	18TB	7 200	SAS 12Gb/s	512e	as soon as available	PYBBHJT7E2	PY-BHJT7E2
	max. 12x - depending on base unit & configuration						
L							

L

M.2 SATA SSD

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

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.							
2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.							
max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.							

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

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

Capacity	*Formfactor*	*Interface*	*DWPD*	*Category*		*order code E-part*	*order code L-part*
240GB	M.2	SATA 6Gb/s	1,5	Boot		**S26361-F5787-E240**	**S26361-F5787-L240**
480GB	M.2	SATA 6Gb/s	1,5	Boot		**S26361-F5787-E480**	**S26361-F5787-L480**
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; connector located on Motherboard (Port1: 2242 or 2280; Port2: 2280 or 22110). VMware is not supported.							

Dual M.2

Dual microSD, PRAID CP100 and M.2 drive cannot be mixed

PRAID CP100, dual M.2 for booting, non hot-plug only for EMEIA market

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 2x M.2 SATA modules and offers RAID1 with 2x M.2 modules.							
PDUAL CP100 is designed for use as a Hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAID.							
Supported RAID level : RAID1 only, 2x M.2 modules need to be ordered separately.							
Supported M.2 Modules : SSD SATA M.2 240GB/480GB, and 240GB for VMware ESXi. (S26361-F5787- E240/L240/E480/L480 or S26361-F5816-E240/L240)							
SSD SATA M.2 240GB/480GB (S26361-F5787- E240/L240/E480/L480) support: planned for Dec 2021							
SSD SATA M.2 240GB for VMware ESXi (S26361-F5816-E240/L240) support: available							
max. 1x per Server, requires 2x SSD SATA M.2 drives.							

Dual microSD

Dual microSD, PRAID CP200 and M.2 drive cannot be mixed

Dual microSD Enterprise for booting, non hot-plug, for VMware ESXi

Capacity	*Formfactor*	*Interface*		*Category*		*order code E-part*	*order code L-part*
64GB	microSD	USB		Boot		**S26361-F4045-E64**	**S26361-F4045-L64**
Dual microSD is designed for use as a VMware ESXi boot drive. Only the standardly equipped microSD are supported.							
Dual microSD offers Hardware-mirrored (RAID1) flash boot device for VMware ESXi, which cannot be supported by M.2.							
vSAN can be booted in case ESXi host has 512 GB of memory or less. Even in case 512 GB or more, if vSAN is 6.5 or later, it can be							
booted by resizing the coredump partition on ESXi hosts. For more information, see the VMware knowledge base article at							
http://kb.vmware.com/kb/2147881.							
max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.							

2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs are either connected directly via onboard connector or indirectly via RAID Controller card

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	as soon as available	**PYBBS40PF**	**PY-BS40PF**
800GB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100	as soon as available	**PYBBS80PF**	**PY-BS80PF**
1.6TB	2.5" (SFF)	PCIe4.0 x4	Write Intensive	100	as soon as available	**PYBBS16PF**	**PY-BS16PF**
max. 30x - depending on base unit & configuration							

PCIe-SSD 2.5" P4800X (SFF) Enterprise with hot plug/hot replace tray

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
750GB	2.5" (SFF)	PCIe3.0 x4	Write Intensive	30		**S26361-F5719-E750**	**S26361-F5719-L750**
max. 30x - depending on base unit & configuration							

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							

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

based on **Intel DC P4610** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	4,1		**S26361-F5737-E160**	**S26361-F5737-L160**
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3,7		**S26361-F5737-E320**	**S26361-F5737-L320**
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3,1		**S26361-F5737-E640**	**S26361-F5737-L640**

max. 30x - depending on base unit & configuration

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

PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray*

based on **Intel DC P4510** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
1TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	1,0		**S26361-F5738-E100**	**S26361-F5738-L100**
2TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0,7		**S26361-F5738-E200**	**S26361-F5738-L200**
4TB	2.5" (SFF)	PCIe3.0 x4	Read Intensive	0,8		**S26361-F5738-E400**	**S26361-F5738-L400**

max. 30x - depending on base unit & configuration

EDSFF SSD

EDSFF PCIe-SSDs are not connected via RAID Controller card

PCIe-SSD E1.S Read Intensive (SFF) Enterprise with hot plug/hot replace tray

based on **Intel DC P4511** drives

Capacity	*Formfactor*	*Interface*	*Endurance*	*DWPD*		*order code E-part*	*order code L-part*
4TB	E1.S	PCIe3.0 x4	Read Intensive	0,46		**PYBE140PE**	**PY-E140PE**

max. 64x - depending on base unit & configuration

AIC PCIe-SSD

M

P

Chapter 11 - LAN Components

OCPv3 LoM Adapter

Refer to Thermal Rule for thermal restriction

DynamicLoM

1Gb Ethernet Network Adapter for OCPv3 with RJ45 interface				
Dual speed support, auto-sense: supports 1Gbps and 100Mbps line rate per-port.				
PLAN CP I350-T4 4X 1000BASE-T OCPv3 with Pull Tab bracket	1x	4 port NIC, OCPv3 Intel I350-T4 ***WoL cannot be supported.**	PYBLA274U	PY-LA274U
max. 1 adapters per system				

10Gb Ethernet Network Adapter for OCPv3 with RJ45 interface				
Dual speed support, auto-sense: supports 10Gbps and 1Gbps line rate per-port.				
PLAN EP X710-T2L 2X 10GBASE-T OCPv3 with Pull Tab bracket	1x	2 port NIC, OCPv3 Intel X710-T2L	PYBLA342U	PY-LA342U
PLAN EP X710-T4L 4X 10GBASE-T OCPv3 with Pull Tab bracket	1x	4 port NIC, OCPv3 Intel X710-T4L	PYBLA344U **as soon as available**	PY-LA344U **as soon as available**
max. 1 adapters per system				

10Gb Ethernet Network Adapter 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.				
PLAN EP X710-DA2 2X 10G SFP+ OCPv3 with Pull Tab bracket	1x	2 port NIC, OCPv3 Intel X710-DA2	PYBLA352U	PY-LA352U
PLAN EP X710-DA4 4X 10G SFP+ OCPv3 with Pull Tab bracket	1x	4 port NIC, OCPv3 Intel X710-DA4	PYBLA354U	PY-LA354U
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Finisar	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Finisar	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Intel	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Intel	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 1 adapters per system				

25Gb Ethernet Network Adapter for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules.				
PLAN EP E810-XXVDA2 2X 25G SFP28 OCPv3 with Pull Tab bracket	1x	2 port RDMA NIC, iWARP & RoCEv2, OCPv3 Intel E810-XXVDA2 ***AOC cannot be supported.**	PYBLA402U	PY-LA402U
PLAN EP E810-XXVDA4 4X 25G SFP28 OCPv3 with Pull Tab bracket	1x	4 port RDMA NIC, iWARP & RoCEv2, OCPv3 Intel E810-XXVDA4	PYBLA404U **as soon as available**	PY-LA404U **as soon as available**
PLAN EP MCX4-LX DA2 2X 25G SFP28 OCPv3 with Pull Tab bracket	1x	2 port RDMA NIC, RoCE, OCPv3 Mellanox MCX4-LX *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] ***AOC and optical transceiver module cannot be supported.**	PYBLA3F2U	PY-LA3F2U
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x ,, 4x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m ***Supported for PY*LA3F2U.**	S26361-F4054-E701 **as soon as available**	S26361-F4054-L701 **as soon as available**
SFP28 Optical Transceiver 25G SR E25GSFP28SRX LC	2x ,, 4x	MMF / SR SFP28 module, Intel. Max reach supported 30m ***Supported for PY*LA402U and PY*LA404U.**	PYBSFPS56 **as soon as available**	PY-SFPS56 **as soon as available**
max. 1x per port				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Finisar		S26361-F3986-L3 **as soon as available**
SFP+ Optical Transceiver 10G Single Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Finisar		S26361-F3986-L4 **as soon as available**
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Intel		S26361-F3986-L5 **as soon as available**
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Intel		S26361-F3986-L6 **as soon as available**
Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	2x ,, 4x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	2x ,, 4x			E:JNPSFP-25GDACxML (x:1,3,5
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	2x ,, 4x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	2x ,, 4x			E:QFX-SFP-DAC-xML (x:1,3)
max. 1x per port				
max. 1 adapters per system				

100Gb Ethernet Network Adapter for OCPv3				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box.				
PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3 with Pull Tab bracket	1x	2 port RDMA NIC, iWARP & RoCEv2, OCPv3 Intel E810-CQDA2 ***AOC cannot be supported.**	PYBLA432U	PY-LA432U
PLAN EP MCX6-DX 2X 100G QSFP28 OCPv3 with Pull Tab bracket	1x	2 port RDMA NIC, RoCE, OCPv3 Mellanox MCX6-DX *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402]	PYBLA412U **as soon as available**	PY-LA412U **as soon as available**
Optional, 100Gb QSFP28 Optical Transceiver module				
QSFP28 Optical Transceiver 100G SR E100GQSFPSRX	2x	MMF / SR4 QSFP28 module, Intel. Max reach supported 100m. ***Supported for PY*LA432U.**	PYBSFPS54	PY-SFPS54
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m ***Supported for PY*LA412U.**	S26361-F4052-E701 **as soon as available**	S26361-F4052-L701 **as soon as available**
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	2x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m ***Supported for PY*LA412U.**	S26361-F4052-E801 **as soon as available**	S26361-F4052-L801 **as soon as available**
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
max. 1x per port				
max. 1 adapters per system				

1Gb Ethernet Network Components

1Gb Ethernet network adapter with RJ45 interface				
Dual speed support, auto-sense: supports 1Gbps and 100Mbps line rate per-port.				
PLAN CP 4x1Gbit Cu Intel I350-T4 FH	4x	4 port, Intel	S26361-F4610-E4	S26361-F4610-L504
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	4x		S26361-F4610-E204	
max. 4 adapters per system				

10Gb Ethernet Network Components

10GBASE-T

10Gb Ethernet network adapters with RJ45 interface				
Dual speed support, auto-sense: supports 10Gbps and 1Gbps line rate per-port.				
PLAN EP X710-T2L 2X 10GBASE-T FH	4x	2 port NIC, Intel X710-T2L	PYBLA342	PY-LA342
PLAN EP X710-T2L 2X 10GBASE-T LP	4x		PYBLA342L	
PLAN EP X710-T4L 4X 10GBASE-T FH	4x	4 port NIC, Intel X710-T4L	PYBLA344	PY-LA344
PLAN EP X710-T4L 4X 10GBASE-T LP	4x		PYBLA344L	
max. 4x adapters per system				

10G SFP+

10Gb Ethernet Network Adapter				
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules.				
PLAN EP X710-DA2 2x10Gb SFP+ FH	4x	2 port NIC,	S26361-F3640-E2	S26361-F3640-L502

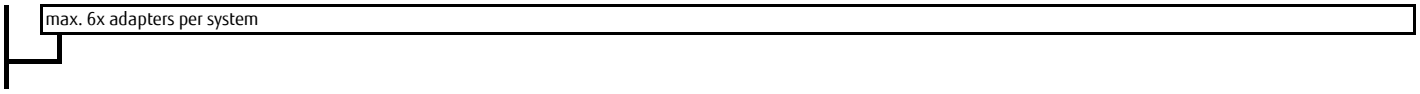
PLAN EP X710-DA2 2x10Gb SFP+ LP	4x	Intel X710-DA2	S26361-F3640-E202	
PLAN EP X710-DA4 4x10Gb SFP+ FH	4x	4 port NIC, Intel X710-DA4	S26361-F3640-E4	S26361-F3640-L504
PLAN EP X710-DA4 4x10Gb SFP+ LP	4x		S26361-F3640-E204	
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Finisar	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Finisar	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Intel	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Intel	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port				
max. 4x adapters per system				

25Gb Ethernet Network Components

25Gb Ethernet Network Adapter				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules.				
Ethernet Network Adapters				
PLAN EP E810-XXVDA2 2X 25G SFP28 FH	4x	2 port 25/10G SFP28 E810-XXVDA2 ***AOC cannot be supported.**	PYBLA402	PY-LA402
PLAN EP E810-XXVDA2 2X 25G SFP28 LP	6x		PYBLA402L	
PLAN EP E810-XXVDA4 4X 25G SFP28 LP	6x	4 port 25/10G SFP28 E810-XXVDA4	PYBLA404L **as soon as available**	PY-LA404 **as soon as available**
PLAN EP MCX4-LX 2X 25G SFP28 FH	4x	2 port 25GBASE MCX4121A-ACAT *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] ***AOC and optical transceiver module cannot be supported.**	S26361-F4054-E2	S26361-F4054-L502
PLAN EP MCX4-LX 2X 25G SFP28 LP	6x		S26361-F4054-E202	
Optional, 25Gb SFP28 optical transceiver module, select one per cage				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x ,, 4x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m ***Supported for S26361-F4054-E2/E202/L502.**	S26361-F4054-E701 **as soon as available**	S26361-F4054-L701 **as soon as available**
SFP28 Optical Transceiver 25G SR E25GSFP28SRX LC	2x ,, 4x	MMF / SR SFP28 module, Intel. Max reach supported 30m ***Supported for PY*LA402(L) and PY*LA404(L).**	PYBSFPS56 **as soon as available**	PY-SFPS56 **as soon as available**
max. 1x per port				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Finisar		S26361-F3986-L3 **as soon as available**
SFP+ Optical Transceiver 10G Single Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Finisar		S26361-F3986-L4 **as soon as available**
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x ,, 4x	LC, MMF / SR SFP+ module, up to 400m, Intel		S26361-F3986-L5 **as soon as available**
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x ,, 4x	LC, SMF / LR SFP+ module, up to 10km, Intel		S26361-F3986-L6 **as soon as available**
Optional, DAC cable				
Cisco 25G DAC SFP-H25G-CUxM (x:1,2,3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Mellanox 25G DAC MCP2M00-A0x (x:0A,01,1A,02,2A,03)	2x ,, 4x	Test only and purchase from switch vendors.		
Juniper 25G DAC JNP-SFP-25G-DAC-xM (x:1,3,5)	2x ,, 4x			E:JNPSFP-25GDACxML (x:1,3,5
Cisco 100G to 25Gx4 Breakout DAC QSFP-4SFP25G-CU-xM (x:1,2,3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Cisco 10G DAC SFP-H10GB-CUxM (x:1,2,3,5,7,10)	2x ,, 4x	Test only and purchase from switch vendors.		
Brocade 10G DAC 10G-SFPP-TWX-0x01 (x:3,5)	2x ,, 4x	Test only and purchase from switch vendors.		
Juniper 10G DAC QFX-SFP-DAC-xML (x:1,3)	2x ,, 4x			E:QFX-SFP-DAC-xML (x:1,3)
max. 1x per port				
max. 6x adapters per system				

50Gb Ethernet Network Components

50Gb Ethernet Network Adapter				
Each cage consumes 1x optical SFP56 or SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules.				
PLAN EP E810-LDA2 2X 50G SFP28 LP	4x	2 port 50G QSFP28 Intel E810-LDA2	PYBLA422L **as soon as available**	PY-LA422 **as soon as available**
Optional, 50Gb SFP56 optical transceiver module, select one per cage				
SFP56 Optical Transceiver 50G SR MMA2P00-AS LC	2x	MMF / SR SFP56 module, Intel. Max reach supported TBDm	TBD **as soon as available**	TBD **as soon as available**
max. 1x per port				


max. 6x adapters per system

100Gb Ethernet Network Components

100Gb Ethernet Network Adapter				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. The QSFP will not ship on the card because it will interfere with the shipping box.				
PLAN EP E810-CQDA2 2X 100G QSFP28 LP	6x	2 port 100G QSFP28 Intel E810-CQDA2 ***AOC and optical transceiver module cannot be supported.**	PYBLA432L	PY-LA432
PLAN EP MCX6-DX 2X 100G QSFP28 LP	6x	2 port 100GBASE MCX623106AN-CDAT *cannot be selected with IB HCA 200Gb[S26361-F5756-L102/S26361-F5756-E102/PY-HC402/PYBHC402] ***AOC and optical transceiver module cannot be supported.**	PYBLA412L **as soon as available**	PY-LA412 **as soon as available**
Optional, 100Gb QSFP28 Optical Transceiver module				
QSFP28 Optical Transceiver 100G SR E100GQSFPSRX	2x	MMF / SR4 QSFP28 module, Intel. Max reach supported 100m ***Supported for PY*LA432(L).**	PYBSFPS54 **as soon as available**	PY-SFPS54 **as soon as available**
QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	2x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m ***Supported for PY*LA412(L).**	S26361-F4052-E701 **as soon as available**	S26361-F4052-L701 **as soon as available**
QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	2x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m ***Supported for PY*LA412(L).**	S26361-F4052-E801 **as soon as available**	S26361-F4052-L801 **as soon as available**
Optional, DAC cable				
Cisco 100G DAC QSFP-100G-CUxM (x:1,2,3,5)	2x	Test only and purchase from switch vendors.		
Mellanox 100G DAC MCP1600-C0x (x:0A,01,1A,02,2A,03)	2x	Test only and purchase from switch vendors.		
max. 1x per port				
max. 6x adapters per system				

Intel QuickAssist Technology Adapters

Intel QuickAssist Technology Adapters				
This PCIe x16 adapter card adds QuickAssist technology to systems with Intel C624 LBG-4 chipset implementations, in order to provide feature-parity with Intel C627 LBG-T chipsets. QuickAssist accelerates compression ~65Gb/s, encryption ~100Gb/s, and RSA ~100 Ops/s. The adapter ships without any kind of drivers, end customers are responsible to develop, provide them themselves, or download from Intal as soon as available. The adapter card does not implement any kind of Ethernet network functionality, except that it accelerates Ethernet traffic from either DynamicLoM or Intel Ethernet adapter cards.				
PACC EP QAT8970 with Low Profile bracket	2x	Intel QuickAssist Technology Adapter 8970 PCIe x16	S26361-F4062-E200 **as soon as available**	S26361-F4062-L500 **as soon as available**
Submitting a formal Release Request in order to activate shipment may apply for the time being to confirm with requestor: ships without drivers.				
max. (tbd) adapters per system				

R

Chapter 12 - Fibre Channel Controller

K

32G Fibre Channel adapters with LC interface for 50µm optical cables (OM4 or OM3)				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 32, 16, and 8Gbps.				
Adapters support 32GFC, 16GFC, and 8GFC infrastructures.				
PFC EP LPe35000 1X 32GFC PCIe v4	4x	1 port, full height, Broadcom Emulex®	PYBFC421	PY-FC421
PFC EP LPe35000 1X 32GFC PCIe v4 LP	6x	1 port, low profile, Broadcom Emulex®	PYBFC421L	
PFC EP LPe35002 2X 32GFC PCIe v4	4x	2 port, full height, Broadcom Emulex®	PYBFC422	PY-FC422
PFC EP LPe35002 2X 32GFC PCIe v4 LP	6x	2 port, low profile, Broadcom Emulex®	PYBFC422L	
PFC EP QLE2770 1X 32GFC PCIe v4	4x	1 port, low profile, Marvell Qlogic®	PYBFC411	PY-FC411
PFC EP QLE2770 1X 32GFC PCIe v4 LP	6x	1 port, low profile, Marvell Qlogic®	PYBFC411L	
PFC EP QLE2772 2X 32GFC PCIe v4	4x	2 port, low profile, Marvell Qlogic®	PYBFC412	PY-FC412
PFC EP QLE2772 2X 32GFC PCIe v4 LP	6x	2 port, low profile, Marvell Qlogic®	PYBFC412L	
16Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 16, 8, and 4Gbps.				
PFC EP LPe31000 1x 16Gb FH	4x	1 port, full height, Broadcom Emulex®	S26361-F5596-E1	S26361-F5596-L501
PFC EP LPe31000 1x 16Gb LP	6x	1 port, low profile, Broadcom Emulex®	S26361-F5596-E201	
PFC EP LPe31002 2x 16Gb FH	4x	2 port, full height, Broadcom Emulex®	S26361-F5596-E2	S26361-F5596-L502
PFC EP LPe31002 2x 16Gb LP	6x	2 port, low profile, Broadcom Emulex®	S26361-F5596-E202	
Will be released in October timeframe				
max. 7 Controller per system (mixed configurations are supported)				

Chapter 13 - Infiniband Controllers

S26361-F5756-L102	PY-HC402
S26361-F5756-E102	**PYBHC402**
IB HCA 200Gb 1channel HDR	IB HCA 200Gb 2channel HDR
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
1x Q-SFP+ connector	2x Q-SFP+ connector
PCIe Gen4 x16 LP Card, 170mm	PCIe Gen4 x16 LP Card, 170mm
max. 2x per system	max. 2x per system

For loose delivery and in Rack customizing

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

L

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

M

Power supply unit				
modular redundant Power Supply				
2nd PSU for redundancy				
occupies hot plug PSU slot, min. 1 / max. 2x per system				
input nominal voltage (AC): 100V-240V, max: 90V-264V; input dropout 10ms/100% load, 47Hz-63Hz				
500W platinum PSU	94% eff.	Connector type: C13	**PYBPU501**	**PY-PU501**
900W platinum PSU	94% eff.	Connector type: C13	**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	**PYBPU163**	**PY-PU163**
2200W platinum PSU	94% eff.	Connector type: C19	**PYBPU221**	**PY-PU221**
DC PSU				
1300W PSU DC	94% eff.	48V DC, powercode see below as soon as available	**PYBPU131D**	**PY-PU131D**
1600W PSU HVDC	94% eff.	380V DC, Connector type: Anderson Power Products Saf-D-Grid® Plug type **APAC/JAPAN region only**	**PYBPU163D**	**PY-PU163D**
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 as soon as available	**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 PSU	**S26361-F3151-E300**	**S26361-F3151-L300**
Power cord IEC320 C19 -> US NEMA L6-20p, 4m for 2200W PSU	**S26361-F3151-E500**	**S26361-F3151-L500**
Power cord 16A IEC320 C19->CEE 7/7, 2.5m for 2200W 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**	
~~Region Kit China for CCC option not required systems (N/A CCC systems for more than 1300W PSU or, systems printing CCC mark always), Contains warranty sheet and safety instructions for China, need to be included always into the order from China country (Sales region for APAC only)~~	~~**S26361-F1452-E130**~~	

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

N

Chapter 15 - Accessories

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

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

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Chapter 16 - Energy Star

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as soon as available

S26361-F3301-E541
RX2540 Mx E-Star Fam1
Limits configuration in accordance with Energy Star requirements for systems with 1 CPU
max. 1x per system

1 CPU Variant
not allowed are:

limitations for E-Star Fam1 certification

limiation t.b.d.

as soon as available

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

2 CPU Variant
not allowed are:

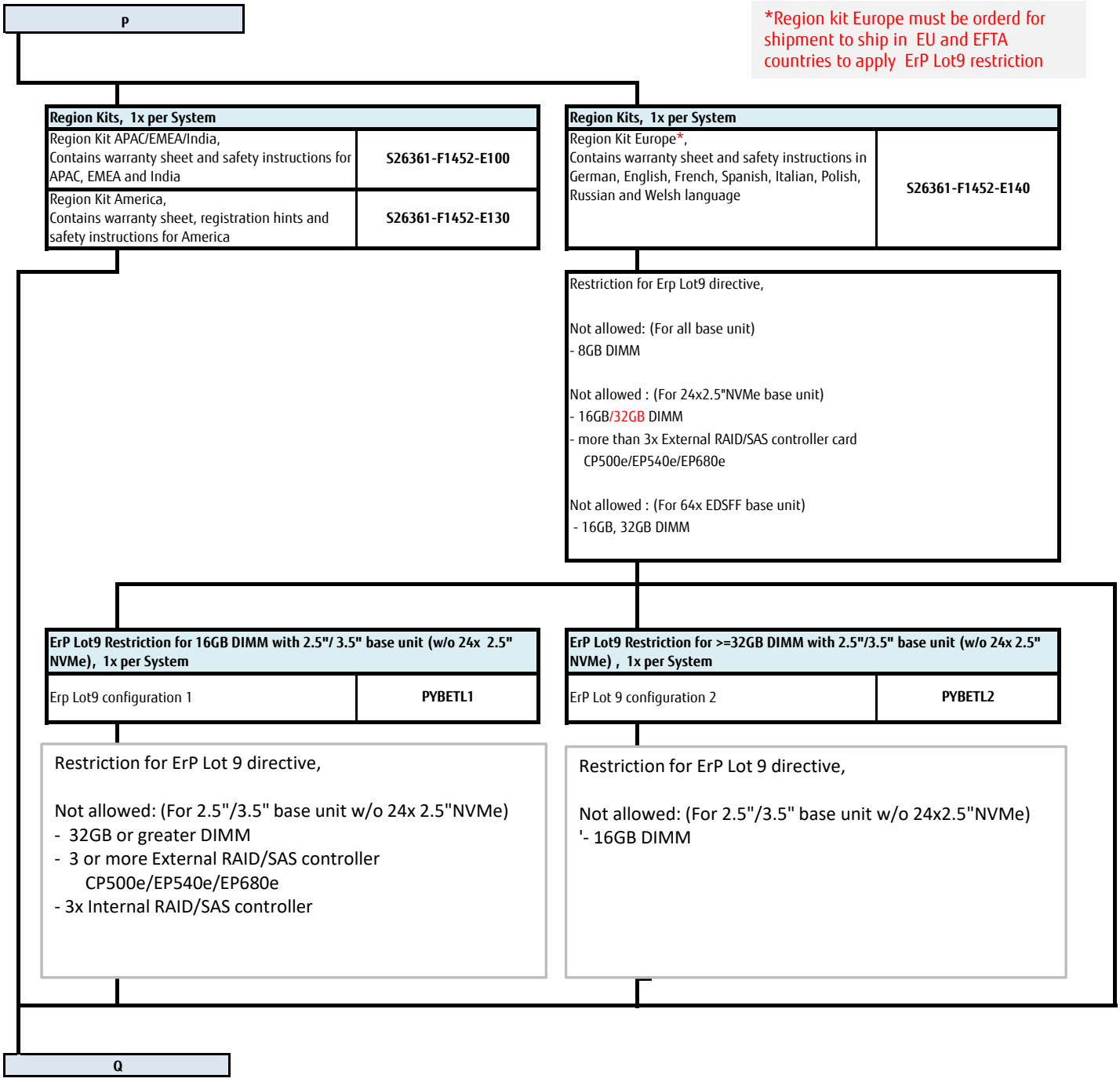
limitations for E-Star Fam2 certification

limiation t.b.d.

ENERGY STAR-configurations with one CPU will be labeled:	PRIMERGY RX2540 M6 E-Star Fam1
ENERGY STAR-configurations with two CPU will be labeled:	PRIMERGY RX2540 M6 E-Star Fam2
non ENERGY STAR-configurationen will be labeled:	PRIMERGY RX2540 M6

P

Chapter 17 - ErP Lot 9 restriction



Chapter 18 - Thermal Rule

Q

For CPU group, refere to Chapter3- CPU

* High speed network card
MCX6-DX: PLAN EP MCX6-DX 2X 100G QSFP28 LP(PYBLA412L)
2x200Gb IB: IB HCA 200Gb 2channel HDR(PYBHC402)

3.5" base unit (not including GFX/GPU mount kit , NVIDIA T4/High speed network card*)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	12x3.5"			PCIe	OCP	
1CPU configuration	CPU A	128GB LRDIMM, 8GB - 64GB	128GB	Front: 6	Front: 6	0	0	Level1-3	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 256GB	128GB - 512GB	Front: 6	Front: 6	0	0	Level1-3	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									
	CPU A	64GB RDIMM, 8GB - 32GB	Not support	Front:7-10**	Front: 7-12**			Level1-2 Internal RAID: Level1-3	Tier1-3	
	CPU B									

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

3.5" base unit (including NVIDIA T4 or High speed network card*)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	12x3.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 6	Front: 6	0	T4: 1-6 MCX6-DX:1-6 2x200Gb IB:1-2	Level1-5	Tier1-8	30C***
	CPU B									
	CPU C	Not support.								
	CPU D									

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

3.5" base unit (ATD40)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	12x3.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 6	Front: 6	0	0	Level1-3	Tier1-5	40C
	CPU B									
	CPU C	Not support.								
	CPU D									

3.5" base unit (ATD45)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	12x3.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									

2CPU configuration	CPU A	8GB - 32GB	Not support	Front: 6	Front: 6	0	0	Level1-2	Tier1-4	45C
	CPU B	Not support.								
	CPU C									
	CPU D									

2.5"/3.5" base unit (including GFX/GPU mount kit)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	16x2.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 64GB	128GB - 512GB	Front: 6	Front: 16	1-2	T4:0 MCX6-DX: 0-5 2x200Gb IB:0-2	Level1-5	Tier1-8	30C***
	CPU B									
	CPU C									
	CPU D	Not support.								

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

2.5" base unit (not including GFX/GPU mount kit , NVIDIA T4/High speed network card*, Rear drive bay)

CPU		Memory Type		Front / Rear drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	16x2.5"	24x2.5"			PCIe	OCP	
1CPU configuration	CPU A	128GB LRDIMM, 8GB - 64GB	128GB	Front: 16 Rear:0	Front: 16 Rear:0	0	0	Level1-4	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									
	CPU A	128GB LRDIMM, 8GB - 64GB	128GB		Front:17-24** Rear:0	0	0	Level1-3	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 256GB	128GB - 512GB	Front: 16 Rear:0	Front: 16 Rear:0	0	0	Level1-4	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									
	CPU A	128GB LRDIMM, 8GB - 64GB	128GB - 512GB		Front:17-24** Rear:0	0	0	Level1-3	Tier1-7	35C
	CPU B									
	CPU C									
	CPU D									

** Need to select Configuration Thermal Design 2.5"HDD(PYBETA3) more than 16 drives.

2.5" base unit (including Rear drive bay)

CPU		Memory Type		Front / Rear drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	16x2.5"	24x2.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, only 2CPU configuration available								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	64GB RDIMM, 8GB - 32GB	128GB	Front: 16 Rear:1-6	Front: 24 Rear:1-6	0	T4:0 MCX6-DX: 0-6 2x200Gb IB:0-2	Level1-5	Tier1-8	30C**
	CPU B									
	CPU C	No support								
	CPU D									

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

2.5" base unit (including NVIDIA T4 / High speed network card*)

CPU		Memory Type		Front / Rear drive bay		GFX/GPU Mount Kit (FH GPGPU)	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	16x2.5"	24x2.5"			PCIe	OCP	
1CPU configuration	CPU A	Not support, only 2CPU configuration available								
	CPU B									
	CPU C									
	CPU D									
2CPU	CPU A	8GB - 64GB	128GB	Front: 16	Front: 24	0	T4:1-6	Level1-5	Tier1-8	30C**

configuration	CPU B			Rear:0	Rear:0		MCX6-DX:1-6 2x200Gb IB:1-2			
	CPU C	No support								
	CPU D									

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

2.5" base unit (ATD40)

CPU		Memory Type		Front / Rear drive bay		GFX/GPU Mount Kit	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	16x2.5"	24x2.5"	(FH GPGPU)		PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 16 Rear:0	Front: 16 Rear:0	0	0	Level1-3	Tier1-5	40C
	CPU B									
	CPU C	Not support.								
	CPU D									

2.5" base unit (ATD45)

CPU		Memory Type		Front drive bay		GFX/GPU Mount Kit	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	10x3.5"	12x3.5"	(FH GPGPU)		PCIe	OCP	
1CPU configuration	CPU A	Not support, Only 2CPU configuration available.								
	CPU B									
	CPU C									
	CPU D									
2CPU configuration	CPU A	8GB - 32GB	Not support	Front: 16	Front: 16	0	0	Level1-2	Tier1-4	45C
	CPU B	Not support.								
	CPU C									
	CPU D									

EDSFF base unit (not including NVIDIA T4/High speed network card*)

CPU		Memory Type		Front drive bay	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	64xEDSFF		PCIe	OCP	
1CPU configuration	CPU A	128GB LRDIMM, 8GB - 64GB	128GB	Front: 32	0	Level1-4	Tier1-7	35C
	CPU B							
	CPU C							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 256GB	128GB - 512GB	Front: 32	0	Level1-4	Tier1-7	35C
	CPU B							
	CPU C							
	CPU E							
	CPU F							
	CPU A	128GB LRDIMM, 8GB - 64GB	128GB - 512GB	Front:33-64**	0	Level1-3	Tier1-7	35C
	CPU B							
	CPU C							
	CPU E							

** Need to select Configuration Thermal Design EDSFF(PYBETA4) for more than 32 drives.

EDSFF base unit (including NVIDIA T4/High speed network card*)

CPU		Memory Type		Front drive bay	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	64xEDSFF		PCIe	OCP	
1CPU configuration	CPU A	Not support, only 2CPU configuration available.						
	CPU B							
	CPU C							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 64	T4:1-6 MCX6-DX: 1-6 2x200Gb IB:1-2	Level1-5	Tier1-8	30C**
	CPU B							
	CPU C	Not support.						
	CPU E							

CPU F

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

EDSFF base unit (ATD40)

CPU		Memory Type		Front drive bay	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	64xEDSFF		PCIe	OCP	
1CPU configuration	CPU A	Not support, only 2CPU configuration available.						
	CPU B							
	CPU C							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 64GB	128GB	Front: 32	0	Level1-3	Tier1-5	40C
	CPU B							
	CPU C	Not support.						
	CPU E							
	CPU F							

EDSFF base unit (ATD45)

CPU		Memory Type		Front drive bay	Nvidia T4 / High speed network card	Option Card		Ambient Temp.
		DDR4	DCPMM	64xEDSFF		PCIe	OCP	
1CPU configuration	CPU A	Not support, only 2CPU configuration available.						
	CPU B							
	CPU C							
	CPU E							
	CPU F							
2CPU configuration	CPU A	8GB - 32GB	Not support	Front: 32	0	Level1-2	Tier1-4	40C
	CPU B	Not support.						
	CPU C							
	CPU E							
	CPU F							

R

Option card: PCIe Level for Thermal condition

Card		Product Number	PCIe Level
RAID/SAS	PSAS CP503i HBA SAS Contr.	PYBSC3FBL / PYBSR3FBVL / PYBSC3FB1L	Level2
	PRAID CP500i RAID Contr.	PYBSR3FBL	Level2
	PRAID EP520i RAID Contr. LP	S26361-F4042-E202	Level3
	PRAID EP540i RAID LP	S26361-F4042-E214 / -E224	Level3
	PRAID EP580i RAID LP	S26361-F4042-E208 / -E228	Level3
	PRAID EP680i RAID LP	PYBSR4C6L / PYBSR4C62L	Level3
	PRAID CP500e RAID Contr. FH/LP	PYBSC3FBE / PYBSC3FBEL	Level2
	PRAID EP540e RAID Contr. FH/LP	S26361-F4063-E4 / -E204	Level3
	PRAID EP680e RAID Contr. FH/LP	PYBSR4C6E / PYBSR4C6EL	Level3
LAN/FC/IB	PFC EP LPE31000 1X 16GB EMULEX	S26361-F5596-E1 / -E201	Level3
	PFC EP LPE31002 2X 16GB EMULEX	S26361-F5596-E2 / -E202	Level3
	PFC EP LPe35000 1X 32GFC PCIe v4 FH/LP	PYBFC421 / PYBFC421L	Level3
	PFC EP LPe35002 2X 32GFC PCIe v4 FH/LP	PYBFC422 / PYBFC422L	Level3
	PLAN CP 4x1Gbit Cu Intel I350-T4 FH	S26361-F4610-E4 / -E204	Level1
	PLAN EP X710-T2L 2X 10GBASE-T FH/LP	PYBLA342 / PYBLA342L	Level2
	PLAN EP X710-T4L 4X 10GBASE-T FH/LP	PYBLA344 / PYBLA344L	Level2
	PLAN EP X710-DA2 2x10Gb SFP+ FH/LP	S26361-F3640-E2 / -E202	Level1
	PLAN EP X710-DA4 4x10Gb SFP+ FH/LP	S26361-F3640-E4 / -E204	Level3
	PLAN EP E810-XXVDA2 2X 25G SFP28 LP	PYBLA402L	Level2
	PLAN EP E810-CQDA2 2X 100G QSFP28 LP	PYBLA432L	Level4
	PLAN EP MCX4-LX 2X 25G SFP28 FH/LP	S26361-F4054-E2 / -E202	Level4
	IB HCA 200Gb 1channel HDR	S26361-F5756-E102	Level4
	IB HCA 200Gb 2channel HDR	PYBHC402	Level5

Option card: OCP Tier for Thermal condition

Card		Product Number	PCIe Level
OCPv3	PLAN CP I350-T4 4X 1000BASE-T OCPv3	PYBLA274U	Tier1
	PLAN EP X710-T2L 2X 10GBASE-T OCPv3	PYBLA342U	Tier2
	PLAN EP X710-T4L 4X 10GBASE-T OCPv3	PYBLA344U	Tier3
	PLAN EP X710-DA2 2X 10G SFP+ OCPv3	PYBLA352U	Tier1
	PLAN EP X710-DA2 2X 10G SFP+ OCPv3	PYBLA354U	Tier1
	PLAN EP E810-XXVDA2 2X 25G SFP28 OCPv3	PYBLA402U	Tier3
	PLAN EP E810-CQDA2 2X 100G QSFP28 OCPv3	PYBLA432U	Tier3
	PLAN EP MCX4-LX DA2 2X 25G SFP28 OCPv3	PYBLA3F2U	Tier3

S

Chapter 19 - others

S

S26361-F1790-E243 **S26361-F1790-L244**
iRMC advanced pack
integrated remote Management controller activation key for graphical console redirection and remote media redirection
max. 1x per system

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

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

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

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

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

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 Thermal Rule
this setting can be activated ex factory only
max. 1x per system

Refer to Thermal Rule for the limitation with Advanced Thermal design for each base unit

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 EMEIA/APAC region
max. 1x per system

PYBETA3
Configuration Thermal Design 2.5"HDD
Configuration Thermal Design 3.5"HDD is required for more than 16 front drives with 24x2.5" base unit. Refer to Thermal Rule
Only for EMEIA/APAC region
max. 1x per system

PYBETA4
Configuration Thermal Design EDSFF
Configuration Thermal Design 3.5"HDD is required for more than 32 drives with 64xEDSFF base unit. Refer to Thermal Rule
Only for EMEIA/APAC region
max. 1x per system