

PRIMERGY TX1330 M5
Tower or 4U 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 TX1330 M5
2		describes rack mount kits and services
3	CPU	Order code and Infos of processors
4	RAM	DDR4 System memory (RAM)
5	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors
6	HD_cage	HDD cage kits
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 Components
12	LAN_FC_IB	Fibre Channel Controller
13		Infiniband Controller (n.a. for TX1330 M5)
14	PSU	Power supply units, power cables, country specific opt.
15	USB_devices	Keyboards, Mice, USB devices
16	others	System Management, ATD, RS232 port, TPM module

Instructions

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

In any case we recommend to use the PC-/SystemArchitect 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 PC-/SystemArchitect.

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

Chapter xx - description of chapter

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

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

For further information see:

Link to datasheet:

<https://sp.ts.fujitsu.com/dmsp/Publications/public/ds-py-tx1330-m5.pdf>

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

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

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PRIMERGY TX1330 M5 Server offers 2 types base units with 3 drive mounting areas:

choose base unit

- Tower
- Rack

accessible drive area (purple color code) optional with

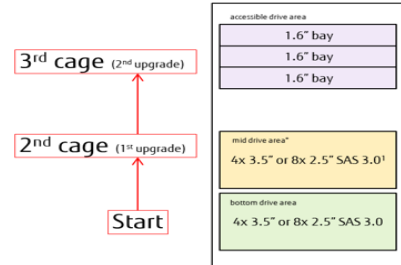
- for up to 3x 1.6" bay for optical drives or back up drives (standard)
- or optional 3rd cage for up to 4x 3.5" SAS/SATA 3.0 LFF HDD (then only a 9.5mm ODD can be configured)
- or optional 3rd cage for up to 8x 2.5" SAS/SATA 3.0 SFF HDD or SSD (then 1x 1.6" ODD/backup drive combination can be configured)
- or optional 3rd cage for up to 4x 2.5" NVMe SSD (then 1x 1.6" ODD/backup drive combination can be configured)

mid drive area (yellow color code) - optional with

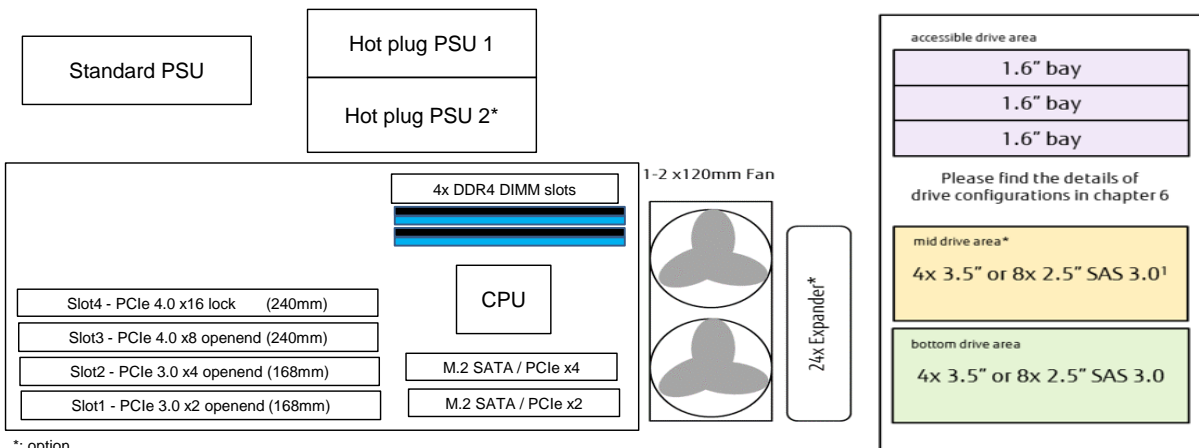
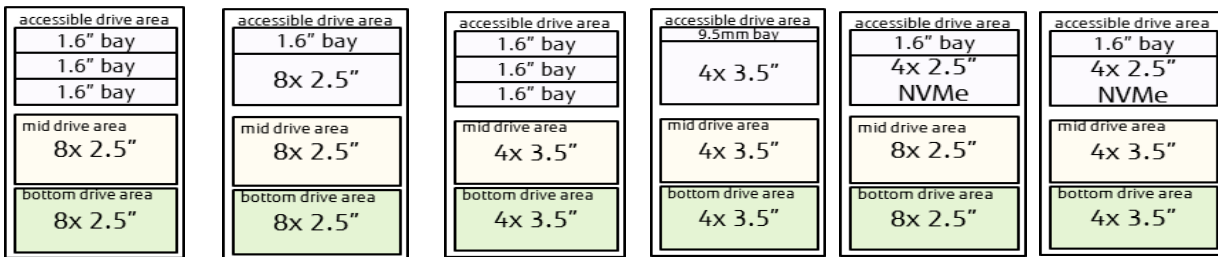
- space for 2nd cage with up to 4x 3.5" SAS/SATA 3.0 LFF HDD
- or space for 2nd cage for up to 2.5" SAS/SATA 3.0 SFF HDD or SSD

bottom drive area (green color code) - mandatory with

- space for up to 4x 3.5" SAS/SATA 3.0 LFF HDD
- or space for up to 8x 2.5" SAS/SATA 3.0 SFF HDD or SSD



Please find all details, possible and released configurations in the chapter 6 - "HD_cage"



*: option
1: with the exception of NVMe SSDs either 2.5" or 3.5" drives are allowed

recommended components for TX1330 M5	#
embedded Lifecycle Management (eLCM)	1x

Chapter 1 - base unit

Start

Power supply units & cooling

For the PRIMERGY TX1330 M5 you can choose between a standard power supply unit (PSU) with 300W / 450W or an hot plug PSU with 500W / 900W (opt. redundant). In case you choose the hot plug PSU you will get redundant Fans as well.

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 highlight easily 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 D3931 based on Chipset Intel® C256
 > cables for connection to the modular or onboard controllers included
 > Xeon E2300 series CPUs or Pentium CPU

Slots:

- Slot 4 PCIe 4.0 x8 or x16 (with lock) - supports GPGPU/GPU or RAID card option
- Slot 3 PCIe 4.0 x8 or x0 (open end) - supports RAID card option
- Slot 2 PCIe 3.0 x4 (open end)
- Slot 1 PCIe 3.0 x4 (open end)
- *Slot 4 and Slot 3 can be switched 2x PCIe 4.0 x8 or 1x PCIe 4.0 x16

System RAM

Up to DDR4-3200 MHz
 4 memory slots for max. 128GB DDR4 RAM.

LAN

2x Intel i210 Gigabit Ethernet

Software

ServerView Suite Software incl. ServerView Installation Manager, Management Software and Updates is optional available

Connectivity

Interfaces at rear side

- 2x LAN RJ45 (1 Gbit)
- 1x service LAN RJ45 (1 Gbit)
- 1x Display port
- 1x VGA (15 pins)
- 2x USB 3.2 Gen2x1 Type A
- 4x USB 2.0 Type A
- 1x RS-232-C (serial, 9 pin) - optional

Interfaces at front

- 1x USB 3.2 Gen2x2 Type C
- 1x USB 3.2 Gen1x1 Type A

Interfaces internal

- 2x internal USB 3.2 Gen1x1 connectors for backup devices
- 2x M.2 (80mm and 110mm)/modules: 1x SATA/NVMe(PCIe x4) and 1x SATA/NVMe(PCIe x2)
- 1x Mini SATA (4x SATA 6G)

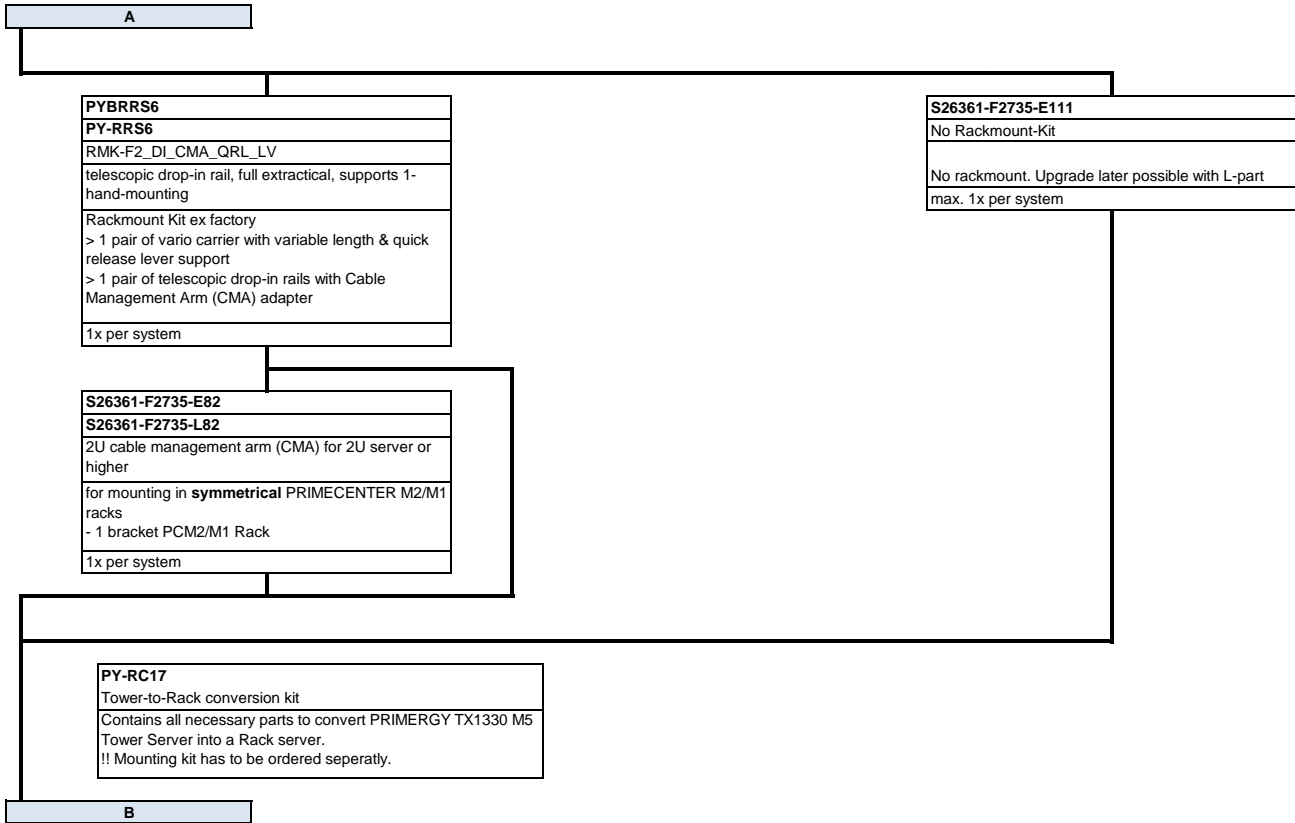
Tower
PYT1335TNS *EOL in EMEA market due to Erp Lot9 regulation
TX1330 M5 Base Unit standard 300W Gold PSU
PYT1335TNM
TX1330 M5 Base Unit redundant Fan and hot plug PSU
PYT1335TPS
TX1330 M5 Base Unit standard 450W Platinum PSU

B

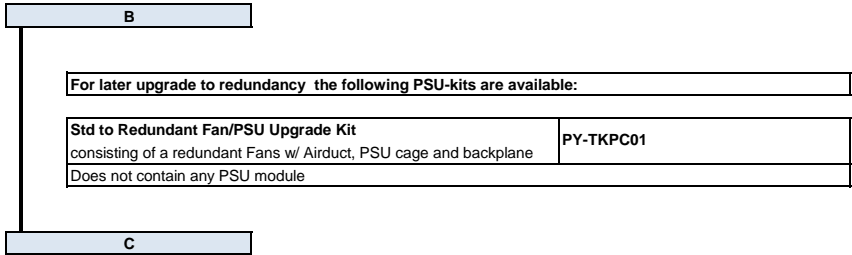
Rack
to create an Rack Base Unit w/ standard PSU you can use the Tower-to-Rack conversion kit (PY-RC17)
PYT1335RNM
TX1330 M5 Base Unit redundant Fan and hot plug PSU

A

Chapter 2 - Rack architecture



Chapter 2' - Options for Base Unit



Chapter 3 - CPU

B

One of following CPU's has to be selected for an orderable basic unit

Pentium (Rocket Lake)		order code (BTO)	order code (Loose delivery)
64-bit Intel Pentium processor supporting DDR4 @ 2666MHz			
Pentium Gold G6405 2C/4T 4.1GHz 4MB 2666MHz 58W		PYBCP63C1	-
Xeon E-23xx (Rocket Lake-E)		order code (BTO)	order code (Loose delivery)
64-bit Intel Xeon processor supporting DDR4 @ 3200MHz			
Xeon E-2314	4C/4T 2.8GHz 8MB 3200MHz Turbo 65W	PYBCP63E1	-
Xeon E-2324G	4C/4T 3.1GHz 8MB 3200MHz Turbo 65W	PYBCP63E5	-
Xeon E-2334	4C/8T 3.4GHz 8MB 3200MHz Turbo 65W	PYBCP63E2	-
Xeon E-2374G	4C/8T 3.7GHz 8MB 3200MHz Turbo 80W	PYBCP63E7	-
Xeon E-2336	6C/12T 2.9GHz 12MB 3200MHz Turbo 65W	PYBCP63E3	-
Xeon E-2356G	6C/12T 3.2GHz 12MB 3200MHz Turbo 80W	PYBCP63E6	-
Xeon E-2386G	6C/12T 3.5GHz 12MB 3200MHz Turbo 95W	PYBCP63E9	-
Xeon E-2378	8C/16T 2.6GHz 16MB 3200MHz Turbo 65W	PYBCP63E4	-
Xeon E-2378G	8C/16T 2.8GHz 16MB 3200MHz Turbo 80W	PYBCP63E8	-
Xeon E-2388G	8C/16T 3.2GHz 16MB 3200MHz Turbo 95W	PYBCP63EA	-

C

Chapter 4 - DDR4 System memory

B

There are 2 memory banks with 2 DIMM slots each.

Single channel memory configuration allow maximum flexibility:
Additional memory can be configured as single memory modules.

Dual channel memory configurations for maximum performance:
For optimum performance memory has to be configured in pairs of memory modules with identical size.

Max. 128GB unbuffered DDR4 RAM for UDIMMs with 32GB moduls

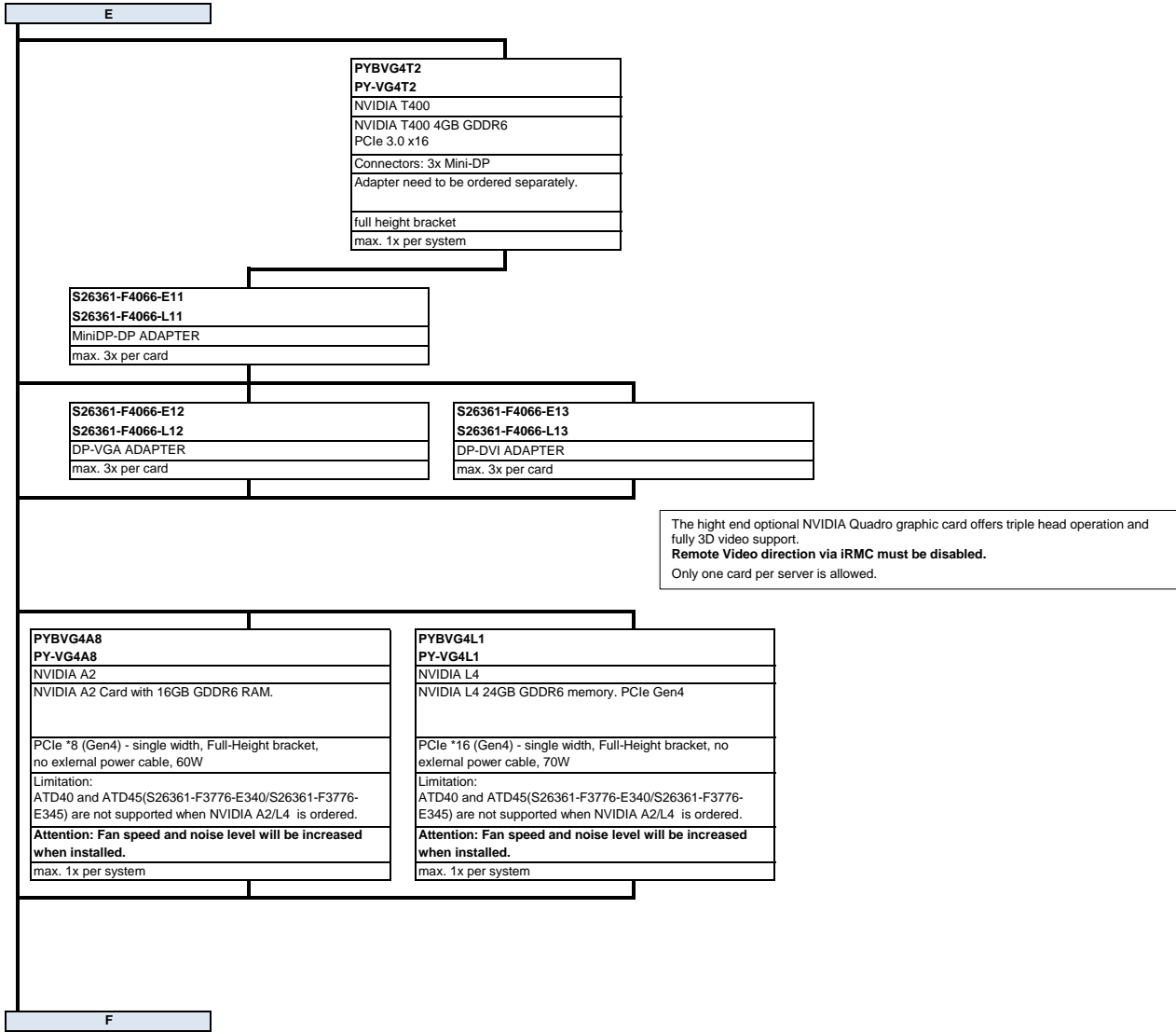
Note:** Memory is not included in the base unit and has to be configured separately, min 1x.

Memory module is not included in the base unit and has to be configured min 1x memory modules.
All memory module installing in one system must be identical. Any mix of different memory modules with different order code is not supported.
PYBME08UG2 will be EOL on January 5th 2024
New order code for 8GB are added, but mixed configuration between PYBME08UG2, PY-ME08UG2 and PYBME08UG4, PY-ME08UG4 are not supported
New order code of PYBME08UG4, PY-ME08UG4 will be available at end of December

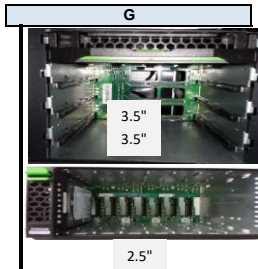
8GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
8GB (1x8GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME08UG2 [EOL]	PY-ME08UG2
8GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
8GB (1x8GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME08UG4	PY-ME08UG4
16GB DDR4 Unbuffered DIMM 3200MHz 1R x8		order code (BTO)	order code (loose delivery)
16GB (1x16GB) 1Rx8 DDR4-3200 U ECC	single rank	PYBME16UG3	PY-ME16UG3
32GB DDR4 Unbuffered DIMM 3200MHz 2R x8		order code (BTO)	order code (loose delivery)
32GB (1x32GB) 2Rx8 DDR4-3200 U ECC	dual rank	PYBME32UG2	PY-ME32UG2
min 1x / max 4x for System			

C

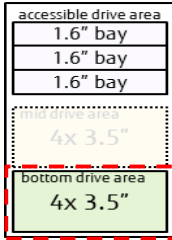
Chapter 5 - Graphics cards



Chapter 6 - HD drive cage

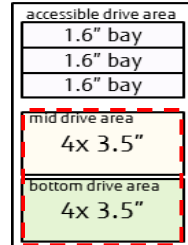


G
 Definition:
 HD drive cage = metal box providing 4 bays for 3.5" HDD or 8 bays for 2.5" HDD/SSD (see sample pictures left).
 Please choose one of the drive cage kits of the following pages. Each kit contains all relevant parts (metal cage, SAS 3.0 backplanes, SAS 3.0 cables and mounting materials). Kits for more than 8x SAS 3.0 HDD contain a 24x SAS 3.0 Expander.
 The red dotted line highlights the content of each drive cage kit.
 1) indicates the order code of the complete kit, explanation & describes the content
 2) lists the recommended or possible RAID controllers with the related order code
 3) describes how many drive bays for ODD / backup drives are available
 4) lists the available upgrade kit options after purchase.
 ! for upgrades in the accessible drive area the mid drive area must be completed first!
 5) Remark



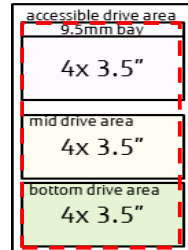
1) PYBBA34S8	Basic 3.5" kit for 4x SAS 3.0 HDD mounted in the bottom drive area		
1x 3.5" kit for up to 4x 3.5" HDD incl. SAS 3.0 Backplane & SAS 3.0 cable mounted in bottom drive area			
2a) recommended RAID configuration	2b) possible RAID controllers		
1x PYBSR3FB	PRAID CP500i RAID Contr.	PRAID EP520i FH / S26361-F4042-E2	PRAID EP540i FH / S26361-F4042-E4
1x PYBSR4FA	PRAID CP600i FH	PRAID EP580i FH / S26361-F4042-E8	
1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP640i FH / PYBSR4C63	PRAID EP680i FH / PYBSR4C6
		PRAID EP 3252-8i FH / PYBSR4MA1	PRAID EP 3254-8i FH / PYBSR4MA2
		PRAID EP 3258-16i FH / PYBSR4MA3	
3) accessible drive area	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available		
3) PYBBA24PH	4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** (occupied 2x1.6" bays)		
4) PY-BA34S8	4x 3.5" HDD kit for mid drive area		
4) PY-BA34S9	4x 3.5" HDD kit incl. Expander, SAS 3.0 BPL & cables for accessible drive area*		
4) PY-BA24PH	4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		
4) Restriction	upgrade of mid drive area and 4x 2.5" NVMe kit in accessible drive area requires hot plug PSU Base Unit		
5) Remark	up to 4x SATA HDD can be operated using the onboard RAID Controller		

*) PY-BA34S8 is mandatory
 **) PRAID EP540i NVMe FH/S26361-F4042-E24, PRAID EP580i NVMe FH/S26361-F4042-E28, PRAID EP680i NVMe FH/PYBSR4C62 or PRAID EP 3258-16i NVMe FH/PYBSR4MA4 RAID controller required



1) PYBBA38S4	Medium 3.5" kit for 8x SAS 3.0 HDD mounted in the bottom and mid drive area		
2x 3.5" HDD cages for up to 8x 3.5" HDD incl. SAS 3.0 Backplanes & SAS 3.0 cables mounted in the bottom and mid drive area			
1) Restriction	redundant Base Unit (PYT1335TNM, PYT1335RNM) required		
2a) recommended RAID configuration	2b) possible RAID controllers		
1x PYBSR3FB	PRAID CP500i RAID Contr.	PRAID EP520i FH / S26361-F4042-E2	PRAID EP540i FH / S26361-F4042-E4
1x PYBSR4FA	PRAID CP600i FH	PRAID EP580i FH / S26361-F4042-E8	
1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP640i FH / PYBSR4C63	PRAID EP680i FH / PYBSR4C6
		PRAID EP 3252-8i FH / PYBSR4MA1	PRAID EP 3254-8i FH / PYBSR4MA2
		PRAID EP 3258-16i FH / PYBSR4MA3	
3) accessible drive area	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available		
3) PYBBA24PH	4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** (occupied 2x1.6" bays)		
4) PY-BA34S9	4x 3.5" HDD kit incl. Expander, SAS 3.0 BPL & cables for accessible drive area		
4) PY-BA24PH	4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		

**) PRAID EP540i NVMe FH/S26361-F4042-E24, PRAID EP580i NVMe FH/S26361-F4042-E28, PRAID EP680i NVMe FH/PYBSR4C62 or PRAID EP 3258-16i NVMe FH/PYBSR4MA4 RAID controller required



1) PYBBA3TS2	Maximum 3.5" kit for 12x HDD mounted in the bottom, mid & accessible drive area		
3x 3.5" HDD cages for bottom, mid and accessible drive area for up to 12x 3.5" HDD incl. 24x SAS 3.0 Expander, SAS 3.0 Backplanes & SAS 3.0 cables. HDD cage (acc. Area) are mounted directly to the housing - higher noise levels may occur			
1) Restriction	redundant Base Unit (PYT1335TNM, PYT1335RNM) required		
2a) recommended RAID configuration	2b) possible RAID controllers		
1x PYBSC3FB	PSAS CP503i HBA SAS Contr.	PRAID EP520i FH / S26361-F4042-E2	PRAID EP540i FH / S26361-F4042-E4
1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP580i FH / S26361-F4042-E8	
1x PYBSC4FA	PSAS CP600i FH	PRAID EP640i FH / PYBSR4C63	PRAID EP680i FH / PYBSR4C6
1x PYBSR4FA	PRAID CP600i FH	PRAID EP 3252-8i FH / PYBSR4MA1	PRAID EP 3254-8i FH / PYBSR4MA2
		PRAID EP 3258-16i FH / PYBSR4MA3	
3) accessible drive area	!! 1x 9.5mm bay for ultra slim DVD or Blu Ray available		

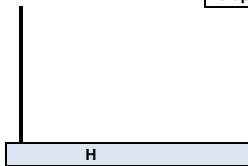
accessible drive area 1.6" bay 1.6" bay 1.6" bay	1) PYBBA28SP	Basic 2.5" kit for 8x SAS 3.0 HDD or SSD mounted in the bottom drive area	
	basic 2.5" HDD kit for up to 8x 2.5" SAS 3.0 HDD or SSD incl. SAS 3.0 Backplane & SAS 3.0 cable		
mid drive area 8x 2.5"	2a) recommended RAID configuration		2b) possible RAID controllers
	1x PYBSR3FB	PRAID CP500i RAID Contr.	PRAID EP520i FH / S26361-F4042-E2
bottom drive area 8x 2.5"	1x PYBSR4FA	PRAID CP600i FH	PRAID EP580i FH / S26361-F4042-E8
	1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP640i FH / PYBSR4C63
			PRAID EP680i FH / PYBSR4C6
			PRAID EP 3252-8i FH / PYBSR4MA1
			PRAID EP 3258-16i FH / PYBSR4MA3
3) accessible drive area		3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives	
3) PYBBA24PH		4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** (occupied 2x1.6" bays)	
4) PY-BA28SM		8x 2.5" HDD kit for mid drive area incl. Expander, SAS 3.0 BPL & cables	
4) PY-BA28SN		8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area*	
4) PY-BA24PH		4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**	
4) Restriction		upgrade of mid drive area and 4x 2.5" NVMe kit in accessible drive area requires hot plug PSU Base Unit	
5) Remark		up to 4x SATA HDD can be operated using the onboard RAID Controller	

*) PY-BA28SM is mandatory
 **) PRAID EP540i NVMe FH/S26361-F4042-E24, PRAID EP580i NVMe FH/S26361-F4042-E28, PRAID EP680i NVMe FH/PYBSR4C62 or PRAID EP 3258-16i NVMe FH/PYBSR4MA4 RAID controller required

accessible drive area 1.6" bay 1.6" bay 1.6" bay	1) PYBBA25S8	mid 2.5" kit for 16x SAS 3.0 HDD or SSD mounted in the bottom & mid drive area	
	mid 2.5" HDD kit for up to 16x 2.5" SAS 3.0 HDD or SSD incl. 24x SAS 3.0 Expander, SAS 3.0 Backplanes & SAS 3.0 cable		
mid drive area 8x 2.5"	1) Restriction		redundant Base Unit (PYT1335TNM, PYT1335RNM) required
	2a) recommended RAID configuration		2b) possible RAID controllers
bottom drive area 8x 2.5"	1x PYBSC3FB	PSAS CP503i HBA SAS Contr.	PRAID EP520i FH / S26361-F4042-E2
	1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP580i FH / S26361-F4042-E8
	1x PYBSC4FA	PSAS CP600i FH	PRAID EP640i FH / PYBSR4C63
	1x PYBSR4FA	PRAID CP600i FH	PRAID EP 3252-8i FH / PYBSR4MA1
			PRAID EP 3254-8i FH / PYBSR4MA2
			PRAID EP 3258-16i FH / PYBSR4MA3
3) accessible drive area		3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available	
3) PYBBA24PH		4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** (occupied 2x1.6" bays)	
4) PY-BA28SN		8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area	
4) PY-BA24PH		4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**	

**) PRAID EP540i NVMe FH/S26361-F4042-E24, PRAID EP580i NVMe FH/S26361-F4042-E28, PRAID EP680i NVMe FH/PYBSR4C62 or PRAID EP 3258-16i NVMe FH/PYBSR4MA4 RAID controller required

accessible drive area 1.6" bay 8x 2.5"	1) PYBBA2LS5	Supreme 2.5" kit for 24x SAS 3.0 HDD or SSD mounted in the bottom, mid and accessible drive area	
	Supreme 2.5" HDD kit for up to 24x 2.5" SAS 3.0 HDD or SSD incl. 24x SAS 3.0 Expander, SAS 3.0 Backplanes & SAS 3.0 cable. 1 HDD cages are mounted directly to the housing - higher noise levels may occur		
mid drive area 8x 2.5"	1) Restriction		redundant Base Unit (PYT1335TNM, PYT1335RNM) required
	2a) recommended RAID configuration		2b) possible RAID controllers
bottom drive area 8x 2.5"	1x PYBSC3FB	PSAS CP503i HBA SAS Contr.	PRAID EP520i FH / S26361-F4042-E2
	1x PYBSC3MA2	PSAS CP 2100-8i FH	PRAID EP580i FH / S26361-F4042-E8
	1x PYBSC4FA	PSAS CP600i FH	PRAID EP640i FH / PYBSR4C63
	1x PYBSR4FA	PRAID CP600i FH	PRAID EP 3252-8i FH / PYBSR4MA1
			PRAID EP 3254-8i FH / PYBSR4MA2
			PRAID EP 3258-16i FH / PYBSR4MA3
3) accessible drive area		1x 1.6" bays for DVD, Blu Ray, LTO or RDX drives available	
no upgrades possible			



Chapter 7 - SAS / RAID Controller

H

See pictures in folder Base / HD_cage for details of combinations

onboard SATA controller with SW-RAID

max number of drives depends on base units

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

onboard controller for SATA HDD or SSD drives

6 ports 3, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1, 10	1x	onboard, included
-------------------------------	------------------------	----------	------------------	----	-------------------

internal HBA and RAID controller, no 2nd Level cache

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

PRAID CP600i FH	No Cache	RAID 0, 1, 10	1x	PYBSR4FA	PY-SR4FA
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3808					

PSAS CP600i FH	No Cache	HBA, no RAID	1x	PYBSC4FA	PY-SC4FA
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 drives without expander requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3816; IT FW stack without RAID functionality					

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

PRAID CP500i RAID Contr.	No Cache	RAID 0, 1, 10, 5, 50	1x	PYBSR3FB	PY-SR3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3408					

PSAS CP500i HBA SAS Contr.	No Cache	HBA, no RAID	1x	PYBSC3FB	PY-SC3FB
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3408; IT FW stack without RAID functionality					

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

PSAS CP 2100-8i FH	No Cache	HBA + RAID 0, 1, 10, 5	1x	PYBSC3MA2	PY-SC3MA2
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x FH PCIe 3.0 x8 (int.) slot					

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP640i FH	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C63	PY-SR4C63
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3908					

PRAID EP680i FH	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C6	PY-SR4C6
16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6 and PYBSR4C62 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP520i RAID Contr. FH	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E2	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 FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					

PRAID EP540i RAID Contr. FH	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E4	S26361-F4042-L514
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PRAID EP580i RAID Contr. FH	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E8	S26361-F4042-L508
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16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, based on LSI SAS3516, without expander, up to 16 SAS/SATA devices are supported.
(the configuration for 4 x 4 NVMe drives require a different order number, please see below)
includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported
requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516
(FYI: S26361-F4042-E4 and E24, S26361-F4042-E8 and E28 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)

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 length	1x	S26361-F4042-E155	S26361-F4042-L110
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internal RAID controllers for PCIe SSD drives

PRAID EP680i NVMe FH	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4C62	PY-SR4C6
up to 4 x4 NVMe drives 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 FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3916 (FYI: PYBSR4C6 and PYBSR4C62 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					

internal RAID controllers for PCIe SSD drives

PRAID EP540i RAID NVMe FH	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E24	S26361-F4042-L514
PRAID EP580i RAID NVMe FH	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E28	S26361-F4042-L508

16 ports for NVMe PCIe SSD, based on LSI SAS3516
up to 4 x4 NVMe devices are supported. (the configuration for SAS/SATA only require a different order number, please see above)
includes FastPath and SafeStore Advanced SW-Licence, CacheCade is no longer supported
requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516
(FYI: S26361-F4042-E4 and E24, S26361-F4042-E8 and E28 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)

Internal RAID controllers for SAS, SATA HDD or SSD drives -Cancelled-					
PRAID EP 3252-8i FH	2GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA1	PY-SR4MA1
PRAID EP 3254-8i FH	4GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA2	PY-SR4MA2
8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander requires 1x FH PCIe 4.0 x8 (int.) slot					
PRAID EP 3258-16i FH	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA3	PY-SR4MA3
16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander (the configuration for up to 4 x4 NVMe drives requires a different order number, please see below) requires 1x FH PCIe 4.0 x8 (int.) slot (FYI: PYBSR4MA3 and PYBSR4MA4 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 31cm length			1x	PYFBM011	PY-FBM01

Internal RAID controllers for PCIe SSD drives -Cancelled-					
PRAID EP 3258-16i NVMe FH	8GB Cache	RAID 0, 1, 10, 5, 50, 6, 60	1x	PYBSR4MA4	PY-SR4MA3
up to 4 x4 NVMe drives are supported. (the configuration for SAS/SATA only requires a different order number, please see above) requires 1x FH PCIe 4.0 x8 (int.) slot (FYI: PYBSR4MA3 and PYBSR4MA4 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling)					
optional Flash Backup Unit (FBU)					
FBU Option for PRAID EP325x: Supercap securing the power supply of the RAID controller in case of power failure including cable with 31cm length			1x	PYFBM011	PY-FBM01

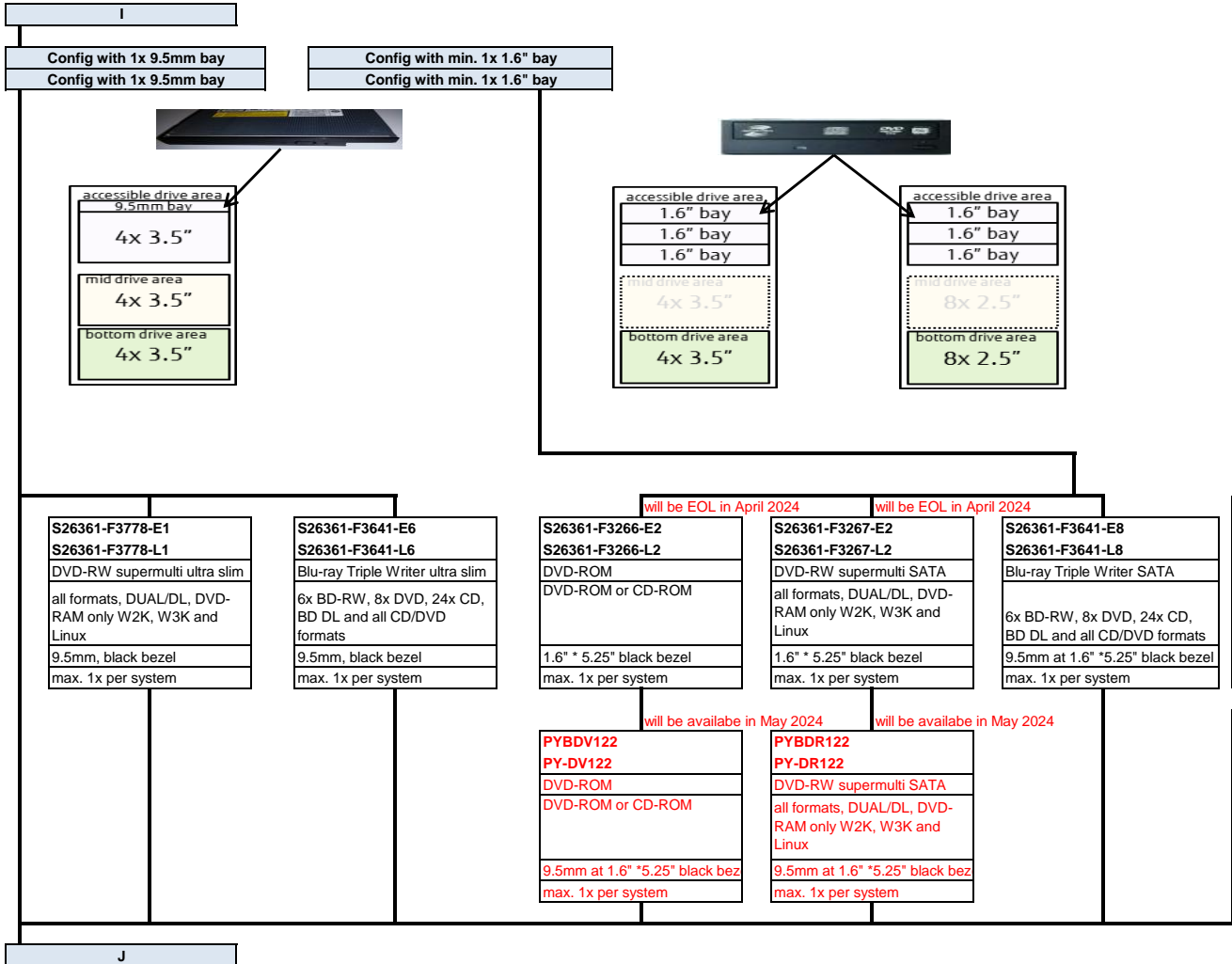
- PSAS CP 2100-8i and PSAS CP503i for LTO / CP600i for LTO / PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed**
- PSAS CP 2100-8i for LTO and PSAS CP503i / CP600i cannot be mixed**
- maximum number of internal RAID + HBA (See also pictures on folder base / HD_cage):
standard config: max. 1
for NVMe support only: max. 2x controllers: one PRAID EP540i / EP580i / EP680i NVMe or PRAID EP 3258-16i NVMe for 4x NVMe; onboard or second RAID, HBA controller for SAS/SATA
- up to **2x FBU** can be integrated per System
for PRAID EP540i / EP580i / EP680i NVMe, no FBU is allowed (performance)
- Expander configurations:** Use PRAID EPxxxi for optimal performance
- Cable kit for upgrade cards: For upgrade L-parts RAID/HBA controller card(EP6xxi/CP6xxi), L-parts Cable kit is required.**
Cable Kit for EP6xxi/CP6xxi : PY-CBS097
- PRAID EP 3252-8i / EP 3254-8i / EP 3258-16i and PRAID EP540i NVMe / EP580i NVMe / EP680i NVMe cannot be mixed**
- PRAID EP 3258-16i NVMe and PSAS CP503i / CP600i / PRAID CP500i / CP600i / EP520i / EP540i / EP580i / EP640i / EP680i cannot be mixed**

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Chapter 8 - ODD optical disk drives

With most configurations the TX1330 M5 offers 3 x 1.6" bay in the accessible drives area located at the top of the Tower Server (or at the right side of the Rack) for various ODD and or backup drives. Depending on the HDD drive configuration there may be some or all of these 1.6" bays already occupied - please find the number of available bays and the size listed as point 3) at each of the drive bundles (see chapter 6). All bundles with limitations are highlighted with 2 exclamation marks in the front (e.g. "!! 1x 9.5mm ...")

The restriction for PYBDV122, PYBDR122
 - When PYBBA3TS2 ordered, PYBDV122 and PYBDR122 cannot be ordered
 - When PYBBA2LS5 ordered and LTO or RDX ordered, PYBDV122 and PYBDR122 cannot be ordered



Chapter 9 - backup drives

With most configurations the TX1330 M5 offers 3 x 1.6" bay in the accessible drives area located at the top of the Tower Server (or at the right side of the Rack) for various ODD and or backup drives. Depending on the HDD drive configuration there may be some or all of these 1.6" bays already occupied - please find the number of available bays and the size listed as point 3) at each of the drive bundles. All bundles with limitations are highlighted with 2 exclamation marks in the front (e.g. "!! 1x 9.5mm ...")

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Config with min. 1x free 1.6" bay

SAS HBA card for Internal LTO drives				
8 ports 3, 6 & 12Gb/s SAS HBA Controller				
PSAS CP503i HBA SAS Contr.	requires 1x FH PCIe 3.0 x8, based on LSI SAS3408 / for LTO drives.	1x	PYBSC3FB1	PY-SC3FB
PSAS CP600i FH for LTO -Cancelled-	requires 1x FH PCIe 4.0 x8 / for LTO drives	1x	PYBSC4FA2	PY-SC4FA
PSAS CP 2100-8i FH for LTO -Cancelled-	requires 1x FH PCIe 3.0 x8 / for LTO drives	1x	PYBSC3MA4	PY-SC3MA2

LTO drives (Need to select one of following LTO drives together with SAS HBA)				
LTO drives are not including tape drives. Cleaning Cartridge and Cables are included				
LTO 7 tape drive (w/o tape)	6.0TB, 300MB/s, SAS 2.0, 5.25 inch/HalfHeight	1x	S26361-F5606-E1	S26361-F5606-L1
LTO 8 tape drive (w/o tape)	12.0TB, 300MB/s, SAS 2.0, 5.25 inch/HalfHeight	1x	S26361-F5789-E1	S26361-F5789-L1
LTO 9 tape drive (w/o tape)	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x	PYBLT911	PY-LT911

RDX drives				
RDX drive is not including Cartridge.				
RDX Drive cage (w/o cartridges)	USB 3.0, 5.25 inch / Half Height	1x	S26361-F3750-E4	S26361-F3750-L4

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

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Chapter 10 - storage drives

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SAS drives and SATA drives can be mixed, but cannot be used in one logical RAID volume.
 SAS drives require a dedicated SAS / RAID Controller
 Hard Disk Sector Format Information:
 512n HDD: 512 byte sectors on the drive media.
 512e (e-emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.
 512e HDD Disk Drives: VMware 6.0 or earlier is not supported.
 When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.
<https://kb.vmware.com/kb/2145210>
 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) 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. 24x - 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. 24x - 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. 24x - depending on base unit & configuration

The SSDs not released with PRAID CP500I

will be available in CQ2 '24

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

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

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.
 max. 24x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray
 based on **Samsung PM897** drives

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

max. 24x - 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. 24x - depending on base unit & configuration

The SSDs not released with PRAID CP500i

will be available in CQ2 '24

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

This SSDs can be used as Non-SED drives, but it requires a RAID controller with SED support for using as SED drives.
max. 24x - depending on base unit & configuration

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

max. 24x - 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. 24x - depending on base unit & configuration

2.5" (SFF) Hard drives

EOL, as long as stock available

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray							
Capacity	RPM	Interface	Sector			order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n			S26361-F5727-E530	S26361-F5727-L530
600GB	15 000	SAS 12Gb/s	512n			S26361-F5727-E560	S26361-F5727-L560
900GB	15 000	SAS 12Gb/s	512n			S26361-F5531-E590	S26361-F5531-L590

max. 24x - depending on base unit & configuration

HDD SAS 2.5" 10K 512n (SFF) Enterprise Mission Critical with hot plug/hot replace tray							
Capacity	RPM	Interface	Sector			order code E-part	order code L-part
300GB	10 000	SAS 12Gb/s	512n			S26361-F5729-E130	S26361-F5729-L130
600GB	10 000	SAS 12Gb/s	512n			S26361-F5729-E160	S26361-F5729-L160
1.2TB	10 000	SAS 12Gb/s	512n			S26361-F5729-E112	S26361-F5729-L112
300GB	10 000	SAS 12Gb/s	512n	SED		PYBSSH01EU	PY-SH01EU
600GB	10 000	SAS 12Gb/s	512n	SED		PYBSSH601EU	PY-SH601EU
1.2TB	10 000	SAS 12Gb/s	512n	SED		PYBSSH121EU	PY-SH121EU

max. 24x - 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
600GB	10 000	SAS 12Gb/s	512e			S26361-F5730-E160	S26361-F5730-L160
1.2TB	10 000	SAS 12Gb/s	512e			S26361-F5730-E112	S26361-F5730-L112
1.8TB	10 000	SAS 12Gb/s	512e			S26361-F5730-E118	S26361-F5730-L118
2.4TB	10 000	SAS 12Gb/s	512e			S26361-F5543-E124	S26361-F5543-L124
1.8TB	10 000	SAS 12Gb/s	512e	SED		PYBSH181DU	PY-SH181DU
2.4TB	10 000	SAS 12Gb/s	512e	SED		S26361-F5582-E124	S26361-F5582-L124

max. 24x - depending on base unit & configuration

EOL, as long as stock available

HDD SATA 2.5" 7.2K 512n (SFF) Enterprise Business Critical with hot plug/hot replace tray							
Capacity	RPM	Interface	Sector			order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n			S26361-F3956-E100	S26361-F3956-L100
2TB	7 200	SATA 6Gb/s	512n			S26361-F3956-E200	S26361-F3956-L200

max. 24x - depending on base unit & configuration

The HDDs not released with PRAID EP5x0i (S26361-F4042-E2/E4/E8)

EOL, as long as stock available

HDD SATA 2.5" 7.2K 512e (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	512e			S26361-F3907-E100	S26361-F3907-L100
2TB	7 200	SATA 6Gb/s	512e			S26361-F3907-E200	S26361-F3907-L200

max. 24x - depending on base unit & configuration

L1

L1

3.5" (LFF) SATA SSD

The SSDs not released with PRAID CP500i

will be available in CQ2 '24

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

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

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

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

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

max. 12x - depending on base unit & configuration

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

The SSDs not released with PRAID CP500i

will be available in CQ2 '24

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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBTS48NMB	PY-TS48NMB
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBTS96NMA	PY-TS96NMA
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBTS19NMA	PY-TS19NMA
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBTS38NMA	PY-TS38NMA
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	SED	PYBTS76NMA	PY-TS76NMA

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

SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray
based on **Samsung PM893** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS24NM9	PY-TS24NM9
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS48NM9	PY-TS48NM9
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS96NM9	PY-TS96NM9
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS19NM9	PY-TS19NM9
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS38NM9	PY-TS38NM9
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0		PYBTS76NM9	PY-TS76NM9

max. 12x - depending on base unit & configuration

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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.5		S26361-F5782-E240	S26361-F5782-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.5		S26361-F5782-E480	S26361-F5782-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.5		S26361-F5782-E960	S26361-F5782-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.5		S26361-F5782-E192	S26361-F5782-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.2		S26361-F5782-E384	S26361-F5782-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.6		S26361-F5782-E768	S26361-F5782-L768

max. 12x - depending on base unit & configuration

3.5" (LFF) Hard drives

EOL, as long as stock available

HDD SAS 3.5" 15K (LFF) 2.5" HDD Enterprise Mission Critical with 3.5" hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n		S26361-F5726-E530	S26361-F5726-L530
600GB	15 000	SAS 12Gb/s	512n		S26361-F5726-E560	S26361-F5726-L560
900GB	15 000	SAS 12Gb/s	512n		S26361-F5532-E590	S26361-F5532-L590
max. 12x - depending on base unit & configuration						

HDD SAS 3.5" 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						

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		PYBCHCT7B7	PY-CHCT7B7
14TB	7 200	SAS 12Gb/s	512e		PYBCHET7B6	PY-CHET7B6
16TB	7 200	SAS 12Gb/s	512e		S26361-F5571-E160	S26361-F5571-L160
18TB	7 200	SAS 12Gb/s	512e		PYBCHJT7B2	PY-CHJT7B2
6TB	7 200	SAS 12Gb/s	512e	SED	PYBCH6T7BU	PY-CH6T7BU
8TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5584-E800	S26361-F5584-L800
12TB	7 200	SAS 12Gb/s	512e	SED	PYBCHCT7BW	PY-CHCT7BW
14TB	7 200	SAS 12Gb/s	512e	SED	PYBCHET7BV	PY-CHET7BV
16TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E160	S26361-F5624-L160
18TB	7 200	SAS 12Gb/s	512e	SED	PYBCHJT7BT	PY-CHJT7BT
max. 12x - depending on base unit & configuration						

L2

L2

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		PYBBHET7E4	PY-BHET7E4
16TB	7 200	SAS 12Gb/s	512e		S26361-F3904-E160	S26361-F3904-L160
18TB	7 200	SAS 12Gb/s	512e		PYBBHJT7E2	PY-BHJT7E2

max. 12x - depending on base unit & configuration

ECO-SATA drive cannot be mixed with SAS HDD drives in same RAID Controller

EOL, as long as stock available

HDD SATA 3.5" 7.2K (LFF) ECO with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512e		S26361-F3951-E100	S26361-F3951-L100

max. 12x - depending on base unit & configuration

HDD SATA 3.5" 5.4K (LFF) ECO with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	5 400	SATA 6Gb/s	512e		PYBPH1TFE	PY-PH1TFE
2TB	5 400	SATA 6Gb/s	512e		PYBPH2TFE	PY-PH2TFE

max. 12x - depending on base unit & configuration

M.2 SATA SSD

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

M.2 drive is designed for use as a VMware ESXi boot drive.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 1x per Server; in case M.2 drive is installed in connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.
 2x M.2 drives required; in case M.2 drives are used with PDUAL CP100.

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

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

M.2 drive is designed for use as a boot drive with the Endurance Spec. above.
 2x M.2 drive for any Hypervisor by the onboard chipset Software RAID is not supported.
 max. 2x per Server; in case M.2 drive is installed in connector located on Motherboard (please see folder "description"). VMware is not supported.
 2x M.2 drives required; in case M.2 drives are used with PDUAL CP100.

Dual M.2

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

PDUAL CP100, dual M.2 for booting, non hot-plug						
Capacity	Formfactor	Interface	Category	order code E-part	order code L-part	
n/a	AIC	PCIe	Boot	FH	PYBDMCP24	PY-DMCP24

PDUAL CP100 is a carrier 2x M.2 SATA modules and offers RAID1 with 2x M.2 modules.
 PDUAL CP100 is designed for use as a Hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAID.
 Supported RAID level: RAID1 only, 2x M.2 modules need to be ordered separately.
 Supported M.2 Modules: SSD SATA M.2 240GB/480GB, and 240GB for VMware ESXi. (S26361-F5787-E240/L240/E480/L480 or S26361-F5816-E240/L240)
 Windows 2022 support: For PY-DMCP24, Firmware Package 2.3.21.2009 or later is required. PYBDMCP24 is shipped with the required Firmware Package
 To manage the CP100, iRMC 1.13S or later is required
 max. 1x per Server, requires 2x SSD SATA M.2 drives.

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

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

2.5" (SFF) PCIe-SSD

2.5" PCIe-SSDs require a RAID Controller
 RAID Controller : PRAID EP540/580i

will be available in CQ2 '24

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

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

EOL, as long as stock available

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

max. 4x - depending on base unit & configuration

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray [EOL]						
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. 4x - depending on base unit & configuration

will be available in CQ2 '24

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

max. 4x - depending on base unit & configuration

EOL, as long as stock available

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

max. 4x - depending on base unit & configuration

PCIe-SSD 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray [EOL]						
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. 4x - depending on base unit & configuration

M

Chapter 11 - Communication / Ethernet Network Components

M

PRIMERGY TX1330 M5 provides default Intel LAN on Motherboard:

- 2x Controller Intel I210 1000BASE-T, provides
- 2x RJ45 ports, 10M/100M/1G autonegotiate for 10M/100M/1G capable Ethernet network infrastructure
- Wake-On LAN supported on both ports
- PXE and iSCSI boot support
- Maximum one port can be configured as a shared Management LAN port

Ethernet Network PCIe Adapters

Intel 1GbE BEASE-T for PCIe					
PLAN CP 2x1Gbit Cu Intel I350-T2	2x	Intel, 1GTx2port	S26361-F4610-E2	S26361-F4610-L502	
PLAN CP 4x1Gbit Cu Intel I350-T4	2x	Intel, 1GTx4port	S26361-F4610-E4	S26361-F4610-L504	
max. 2 adapters per system					

Broadcom 1GbE BEASE-T for PCIe					
PLAN CP BCM5719-4P 4X 1000BASE-T	2x	Broadcom, 1GTx4port	PYBLA284	PY-LA284	
max. 2 adapters per system					

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

Broadcom 10GbE BEASE-T for PCIe					
PLAN EP P210TP 2X 10GBASE-T	2x	Broadcom, 10GTx2port	PYBLA3K2	PY-LA3K2	
max. 2 adapters per system					

Intel 10GbE for PCIe					
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.					
PLAN EP X710-DA2 2x10Gb SFP+	2x	Intel, 10Gx2port	S26361-F3640-E2	S26361-F3640-L502	
PLAN EP X710-DA4 4x10Gb SFP+	2x	Intel, 10Gx4port	S26361-F3640-E4	S26361-F3640-L504	
Optional, 10Gb SFP+ optical transceiver module, select one per cage					
SFP+ Optical Transceiver 10G Single Rate SR	4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3	
SFP+ Optical Transceiver 10G Single Rate LR	4x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4	
SFP+ Optical Transceiver 10G/1G Dual Rate SR	4x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5	
SFP+ Optical Transceiver 10G/1G Dual Rate LR	4x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6	
max. 1x per port					
max. 4 adapters per server system					

Broadcom 10GbE for PCIe					
Each cage consumes 1x optical SFP+ transceiver per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module.					
PLAN EP P210P 2x10Gb SFP+	2x	Broadcom, 10Gx2port	PYBLA3J2	PY-LA3J2	
Optional, 10Gb SFP+ optical transceiver module, select one per cage					
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3	
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+	S26361-F3986-E4	S26361-F3986-L4	
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5	
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6	
max. 1x per port					
max. 2x adapters per system					

Intel 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. Intel adapters support 1Gbps line rate per-port in addition, with the Intel-branded 10G/1G Dual Rate SFP+ Optical Transceiver Modules. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP E810-XXVDA2 2X 25G SFP28	2x	Intel, 25Gx2port	PYBLA402	PY-LA402
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
<i>max. 4x adapters per system</i>				
Mellanox 25GbE for PCIe				
Each cage consumes 1x optical SFP28 or SFP+ transceiver per port. All ports on this card need to install the same Parts Number of optical module. 10G SFP BTO is not available for 25G cards, please select L parts.				
PLAN EP MCX4-LX 25Gb 2p SFP28	2x	Mellanox, 25Gx2port	S26361-F4054-E2	S26361-F4054-L502
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	Mellanox, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L701
<i>max. 1x per port</i>				
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
SFP+ Optical Transceiver 10G Single Rate SR	2x	Finisar, 10G SR SFP+		S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	Finisar, 10G LR SFP+		S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
<i>max. 1x per port</i>				
<i>max. 4x adapters per system</i>				

M - FC

Chapter 12 - Communication / Fibre Channel Components

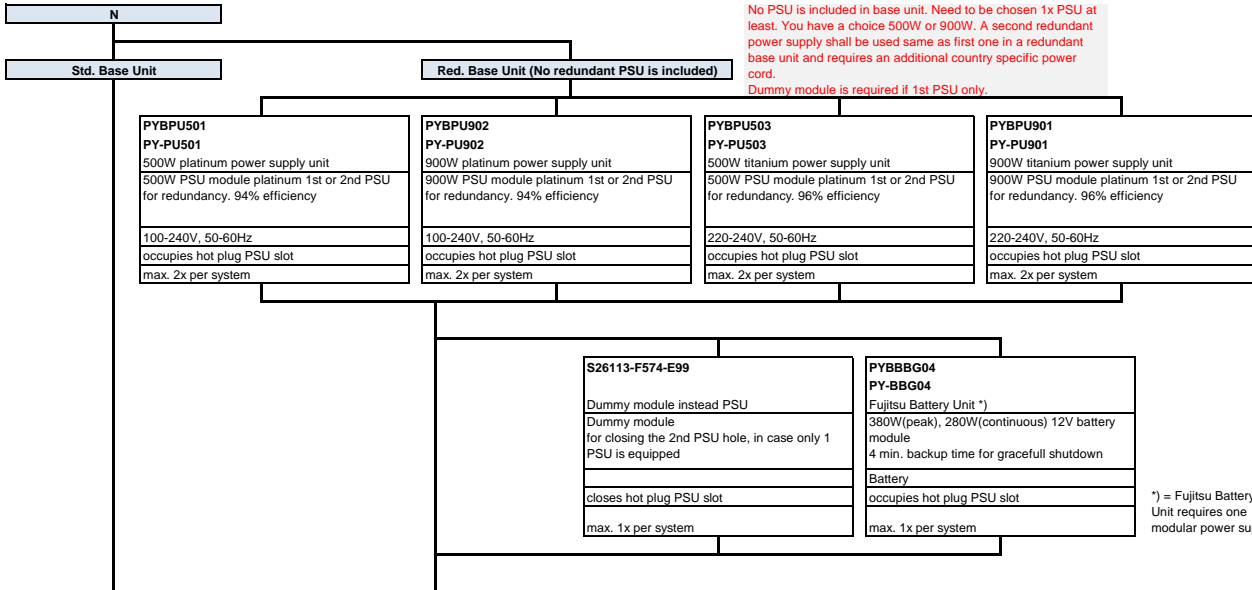
M-FC

Fibre Channel PCIe Adapters

32Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM5 or OM3)				
PFC EP LPe35002 2x 32Gb LP	2x	Broadcom, 32FCx2port	PYBFC422	PY-FC422
PFC EP LPe35000 1x 32Gb LP	2x	Broadcom, 32FCx1port	PYBFC421	PY-FC421
PFC EP QLE2772 2x 32Gb LP	2x	Marvell, 32FCx2port	PYBFC412	PY-FC412
PFC EP QLE2770 1x 32Gb LP	2x	Marvell, 32FCx1port	PYBFC411	PY-FC411
16Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM5 or OM3)				
PFC EP LPe31002 2x 16Gb	2x	Broadcom, 16FCx2port	S26361-F5596-E2	S26361-F5596-L502
PFC EP LPe31000 1x 16Gb	2x	Broadcom, 16FCx1port	S26361-F5596-E1	S26361-F5596-L501
PFC EP QLE2692 2x 16Gb	2x	Marvell, 16FCx2port	S26361-F5580-E2	S26361-F5580-L502
PFC EP QLE2690 1x 16Gb	2x	Marvell, 16FCx1port	S26361-F5580-E1	S26361-F5580-L501
max. 2 adapters per system (mixed configurations are supported)				

N

Chapter 14 - Power supply unit, power cable, country specific options



*) = Fujitsu Battery Unit requires one modular power supply

Power cord option for Tower Server, 1x per PSU		
Cable powercord (D, A, B, F, NL, FIN, N, S, E, P, RUS, TR), 1.8m, grey	T26139-Y1740-E10	T26139-Y1740-L10
Cable powercord (China), 1.8m, grey	T26139-Y1743-E10	-
Cable powercord (China), 1.8m, black	-	T26139-Y1751-L10
Cable powercord (UK, IR), 1.8m, grey	T26139-Y1744-E10	T26139-Y1744-L10
Cable powercord (I), 1.8m, grey	T26139-Y1745-E10	T26139-Y1745-L10
Cable powercord (DK), 1.8m, grey	T26139-Y1746-E10	T26139-Y1746-L10
Cable powercord (ISR), 2.5m, black	T26139-Y1747-E18	T26139-Y1747-L18
Cable powercord (Thailand), 1.8m, rack or wall	T26139-Y1753-E10	T26139-Y1753-L10
Cable powercord (Taiwan), 1.8m, rack or wall	T26139-Y1757-E10	T26139-Y1757-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
no power cord	T26139-Y3850-E10	-
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 (Thailand), 1.8m, rack or wall	T26139-Y1753-E10	T26139-Y1753-L10
Cable powercord (Taiwan), 1.8m, rack or wall	T26139-Y1757-E10	T26139-Y1757-L10
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
Cable powercord (ISR), 2.5m, black	-	T26139-Y1747-L18
no power cord	T26139-Y3850-E10	-

Region Kits, required to order one of them, 1x per System	build-in order code	loose delivery order code
Region Kit APAC/EMEA, Contains warranty sheet and safety instructions for APAC and EMEA	S26361-F1452-E100	-
Region Kit America, Contains warranty sheet, registration hints and safety instructions for America	S26361-F1452-E130	-
Region Kit Europe, Contains warranty sheet and safety instructions in German, English, French, Spanish, Italian, Polish, Russian and Welsh language.	S26361-F1452-E140	-
Region Kit China for CCC option required systems, Contains warranty sheet and safety instructions for China,	S26361-F1452-E101	-

(Sales region for EMEA only)
(Sales region for APAC only)

Certifications, optional 1x per system	build-in order code	loose delivery order code
Certification for China, (CCC), Reduced component selection possible, only with no power cord option necessary to be selected always when "region kit China (S26361-F1452-E101)" is selected	S26361-F3301-E120	-

O

Chapter 15 - Accessories

O

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

USB Mouse:	
Mouse M520 Black	S26381-K467-L100
Mouse M520 Grey	S26381-K467-L101
Mouse M530 Black	S26381-K468-L100
Mouse M530 Grey	S26381-K468-L101

APAC only
 APAC only
 EOL in December 2023
 EOL in December 2023

USB Keyboards for Tower Servers for following countries:	
Country version	FUJITSU Keyboard KB521 USB (grey)
US/int 105 keys (UK keyboard + US int. Layout)	S26381-K521-L102
Czech/Slovak	S26381-K521-L104
US 104 keys (US keyboard + US layout)	S26381-K521-L110
Germany	S26381-K521-L120
Germany / Int	S26381-K521-L122
France	S26381-K521-L140
Sweden / Finland	S26381-K521-L154
United Kingdom	S26381-K521-L165
Switzerland	S26381-K521-L170
Spain	S26381-K521-L180
Italy	S26381-K521-L185

APAC only
 EOL in December 2023
 EOL in December 2023
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 APAC only
 EOL in December 2023
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 EOL in December 2023
 APAC only
 EOL in December 2023

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

P

Chapter 16 - Others (Energy Star restriction)

P

<p>S26361-F3301-E241 E-Star Fam1 Certification RX/TX13x0 Mx E-Star Fam1 Limits configuration in accordance with Energy Star requirements max. 1x per system</p>	<p>PYBES21 E-Star Fam1 Certification RX/TX13x0 Mx E-Star Fam1 Limits configuration in accordance for ENERGY STAR V4.0 max. 1x per system</p>
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will be expired after 2024-1-11

will be effective after 2024-1-12

limitations for E-Star Fam1 certification.

please make sure to follow the guidelines below in order meet ENERGY STAR Fam1 requirements:

<ENERGY STAR V3.0 / S26361-F3301-E241>

- use 2x redundant PSU
- do not use one of the following CPUs : Pentium Gold G6405, Xeon E-2314/E-2324G/E-2334/E-2374G/E-2336
- use total 16GB DIMMs or more
- do not use more than 8x HDD, SSDs (8 is ok)
- do not use PCIe SSD
- do not use total 3 RAID/FC/GFX cards or more

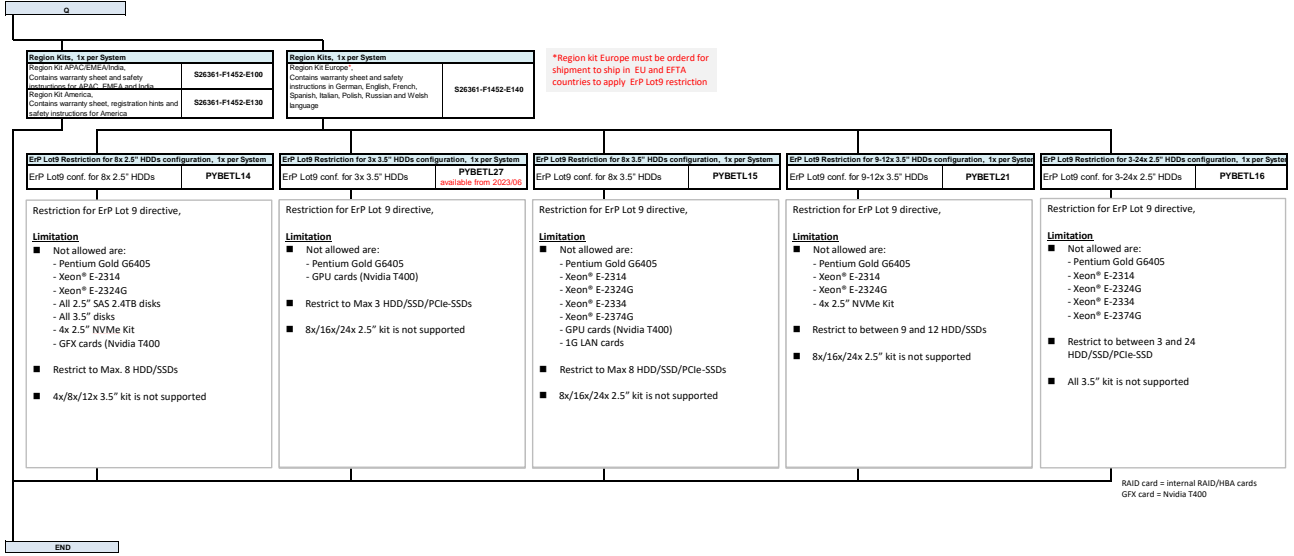
<ENERGY STAR V4.0 / PYBES21>

- use one of the following CPUs : Xeon E-2378G/E-2388G
- use total 32GB or more DIMMs
- use less than five SATA SSDs(Max. 4x: including M.2 SSD) / do not use any HDDs
- do not use any PCIe cards (RAID, LAN, ...)

ENERGY STAR-configurationen will be labeld: **PRIMERGY TX1330 M5 E-Star Fam1**
 non ENERGY STAR-configurationen will be labeld: **PRIMERGY TX1330 M5**

Q

Chapter 16 - Others (ErP Lot 9 restriction)



Chapter 16 - others

P

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

Executing system updates, controlling the hardware setup or running diagnostic tests on components are frequent tasks of IT administrators to ensure a continuous 24x7 server operation. ServerView embedded Lifecycle Management (eLCM) for Fujitsu PRIMERGY servers greatly supports such routine tasks by consolidating and enhancing management functions directly available ("embedded") within the server.

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

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

will be available in CQ4'24

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

S26361-F3776-E340
Cool-safe ® Advanced Thermal design see right side
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-E345
Cool-safe ® Advanced Thermal design see right side
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

General rules for ATD40 and ATD45:
ATD40 and ATD45 use high performance cooling components
ATD40:
- 480GB/960GB M.2 can not be supported.
- Fujitsu Battery Unit can not be supported.
- NVIDIA A2 can not be supported.
- NVIDIA L4 can not be supported.
- Broadcom 1GbE BEASE-T for PCIe/10GbE BEASE-T for PCIe/10GbE for PCIe can not be supported.
Base unit with Standard PSU:
- SSD/HDD can be supported up to 4x 3.5" or 8x 2.5" in bottom drive area.
ATD45:
- 480GB/960GB M.2 can not be supported.
- Fujitsu Battery Unit can not be supported.
- NVIDIA A2 can not be supported.
- NVIDIA L4 can not be supported.
- Broadcom 1GbE BEASE-T for PCIe/10GbE BEASE-T for PCIe/10GbE for PCIe can not be supported.
Base unit with Standard PSU:
- SSD/HDD can be supported up to 4x 3.5" or 8x 2.5" in bottom drive area.
Base unit with Redundant PSU:
- CPU can be supported up to 80W if SSD/HDD cage is occupied in accessible drive area.

 TPM module must not order for China region.

<p>S26361-F3552-E100 [EOL] S26361-F3552-L100 TPM 2.0 module Microsoft Windows Server 2022 not supported max. 1x per system</p>	<p>PYBTPM16 PY-TPM16 TPM 2.0 module Microsoft Windows Server 2022 only supported required for Microsoft Windows Server 2022 max. 1x per system</p>	<p>PYBNTPM No TPM for WINSVR Either PYBTPM16 or PYBNTPM is required with Windows Server 2022 max. 1x per system</p>
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When using Windows Server 2022 as host OS, PYBTPM16 / PY-TPM16 are required.
 In case Windows Server 2022 is guest OS, the TPM is not necessary.

S26361-F3552-E100/L100 are EOL at end-Sep 2022.
 PYBTPM16/PY-TPM16 are currently available

<p>PYBCOM09 PY-COM09 serial port (RS232) mounted on rear wall max. 1x per system</p>
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<p>S26361-F3776-E10 Silent TX configuration This is possible in an office environment. Components which lead to a general increase of fan speed are excluded from the configuration. Only available for standard PSU Base Unit(PYT1335TPS) this setting can be activated ex factory only max. 1x per system</p>

- Excluded from the configurations:
- All SSDs
 - All SAS disks
 - All PCI cards
 - ATD40/ATD45 options
 - LTO drives
 - Restrict to:
 - Up to 2x 3.5" HDDs
 - Up to 4x 2.5" HDDs

<p>PYBFOP09 PY-FOP09 4U Rack Front Bezel for TX1330 M5 not for tower base units max. 1x per system</p>
--

Your Server is ready

Date of change	Configurator revision	Folder / order code / description	What has been changed / comment	Name
14.04.2022			First release	Y. Narita
14.04.2022		ErP Lot9	Updated the restriction	Y. Narita
15.04.2022		CPU	corrected cache size of Xeon E-2388G	A. Iwata
19.04.2022		ErP Lot9	Updated the restriction due to development team's update	Y. Narita
21.04.2022		ODD	Remove the wrong image	Y. Narita
21.04.2022		HD_cage	Remove the wrong descriptions	Y. Narita
22.04.2022		HD_SSD	corrected the the description about "as soon as available" for SAS 16TB and SAS SED 16TB	Y. Sugiyama
22.04.2022		HD_cage	Delete the comments	Y. Narita
02.05.2022		RAID	added OS support matrix for SW-RAID	T. Sudou
11.05.2022		HD_SSD / S26361-F5816-E240	added the description "as soon as available" according to system T50 plan about VMware	Y. Sugiyama
19.05.2022		HD_cage, RAID	added PRAID/PSAS CP600i, PRAID EP640i/EP680i/EP680i NVMe	T. Sudou
19.05.2022		backup	added PSAS CP600i for LTO	T. Sudou
30.05.2022		RAID	updated OS support matrix for SW-RAID, removed BSMI limitation from PSAS CP 2100-8i	T. Sudou
30.05.2022		others	added the comments for Rack Front Bezel	Y. Narita
01.06.2022		GFX	Remove the MiniDP-DP ADAPTER condition	T. Sasaki
07.06.2022		HD_SSD	corrected CP100 code from LP to FH	T. Sudou
16.06.2022	1,10	change_history	Introduce this history table with a new style	
28.06.2022	1,11	RAID	added Cable Kit for EP6xxi/CP6xxi: PY-CBS097	H.Okabe
07.07.2022	1,12	GFX	Add A2	T. Sasaki
14.07.2022	1,13	LAN	added Broadcom LAN: PYBLA284,PY-LA284 PYBLA3K2,PY-LA3K2 PYBLA3J2,PY-LA3J2	Y.Ikuta
25.07.2022	1,14	others	deleted "Nvidia T400 can not be supported." about ATD40/ATD45	H.Okabe
28.07.2022	1,15	backup	removed "as soon as available" from LTO drives	T. Sudou
01.08.2022	1,16	PSU	added new Titanium PSUs PYBPU503, PY-PU503, PY-PU503B8	Y.Narita
05.08.2022	1,17	HD_SSD	corrected the description about restriction of HDD SATA 2.5" 7.2K 512e. (S26361-F3907-*)	Y. Sugiyama
08.08.2022	1,18	LAN	Released some LAN cards. S26361-F4610-E4/S26361-F4610-L504 PYBLA344/PY-LA344 S26361-F3640-E2/S26361-F3640-L502	Y.Ikuta
22.08.2022	1,18	n/a	avoided to open multi windows when this file is opened ->no change about the description	Y. Sugiyama
22.08.2022	1,19	others	updated Notes for TPM2.0	T. Sudou
24.08.2022	1,20	ErP Lot9	Remove limitation that below products cannot be ordered with ErP Lot9 Restriction - Red. 900W PSU (PYBETL14/PYBETL15/PYBETL16) - Xeon® E-2336 / Xeon® E-2356G / Xeon® E-2378 (PYBETL16) - 1G LAN cards (PYBETL16) Remove limitation that RAID/GFX cards Max. qty. is 2 (PYBETL16) Change the restriction about orderable qty. of HDD/SSD/PCIe-SSDs. from 0-16pcs to 9-24pcs and change the name of PYBETL16 (PYBETL16)	H.Okabe
25.08.2022	1,21	HD_SSD	removed the description "as soon as available" according to T50 report	Y. Sugiyama
30.08.2022	1,22	LAN/FC	Released LAN/FC cards. PY*LA402 PY*FC412 PY*FC411 S26361-F5580-E2/L502 S26361-F5580-E1/L501	
08.09.2022	1,23	HD_cage	Released HD_cages. PYBBA3TS2 PYBBA2SS8 PYBBA2LS5 PY-BA34S9 PY-BA28SM PY-BA28SN	H.Okabe
26.09.2022	1,24	HD_SSD	updated Notes on max. No for M.2 SATA SSD updated Notes for PDUAL CP100	T. Sudou
26.09.2022	1,24	RAID	added SLES15 SP4 to OS support matrix for SW-RAID updated FBU description to add EP6xx S26361-F4042-E155, S26361-F4042-L110	T. Sudou
04.10.2022	1,25	backup	added PSAS CP 2100-8i FH for LTO PYBSC3MA4, PY-SC3MA2	T. Sudou
04.10.2022	1,25	RAID	added Note for PSAS CP 2100-8i FH for LTO	T. Sudou
05.10.2022	1,26	PSU	added 900W titanium PSUs PYBPU901 / PY-PU901	J. Okubo / Y. Narita
21.10.2022	1,27	HD_SSD	updated the EOL status for SSD PCIe Intel P4610/P4510 according to Sales Status added the HDD BC-SATA/SAS 20TB "PY*CHLT7B/PY*CHLT7BS/PY*BHLT7E" added the HDD ECO-SATA 5.4K "PY*PH1TFE/PY*PH2TFE" added the M.2 SSD SATA 960GB "PY*MF96YN"	Y. Sugiyama
04.11.2022	1,28	HD_SSD	added RAID PRESET option S26361-F5659-E13	T. Sudou
04.11.2022	1,28	RAID	added PRAID EP 3252-8i PYBSR4MA1, PY-SR4MA1 PRAID EP 3254-8i PYBSR4MA2, PY-SR4MA2 PRAID EP 3258-16i (NVMe) PYBSR4MA3, PYBSR4MA4, PY-SR4MA3 FBU for EP 325x PYFBM011, PY-FBM01	T. Sudou
04.11.2022	1,28	HD_cage	added PRAID EP 3252-8i, EP 3254-8i, PRAID EP 3258-16i (NVMe)	T. Sudou
24.11.2022	1,29	base	removed "will be available in Nov. 2022" from PYT13351PS added remark to PYT13351TNS	H.Okabe
24.11.2022	1,29	ErP Lot9	removed "available from 2022, Dec." from PYBETL21	H.Okabe
03.02.2023	1,30	RAID, backup	added RHEL 8.7 to OS support matrix for SW-RAID updated availability schedules	T. Sudou
09.02.2023	1,31	ErP Lot9	Change the restriction about orderable qty. of HDD/SSD/PCIe-SSDs. from 9-24pcs to 3-24pcs and change the name of PYBETL16 (PYBETL16)	H.Okabe

23.02.2023	1.32	PSU	added Fujitsu Battery Unit PYBBBG04 / PY-BBG04	H.Okabe
13.04.2023	1.33	GFX	added NVIDIA L4 .	T. Sasaki
18.04.2023	1.34	RAID, backup	updated availability schedules	T. Sudou
28.04.2023	1.35	ErP Lot9	added ErP Lot9 Restriction for 3x 3.5" HDDs configuration(PYBETL21)	H.Okabe
09.05.2023	1.36	HD_SSD	updated availability schedules for ECO-SATA and M.2 SATA 960GB	Y. Sugiyama
15.05.2023	1.37	RAID, backup	added RHEL 9.1 to OS support matrix for SW-RAID updated availability schedules	T. Sudou
19.05.2023	1.38	PSU, others	removed the description "will be available in CY2023, 2Q." about Fujitsu Battery Unit updated general rules for ATD40 and ATD45	H.Okabe
22.05.2023	1.39	HD_SSD	removed BC-SATA/SAS 20TB due to release cancel	Y. Sugiyama
07.06.2023	1.40	GFX	L4 is released.	M.Takaoka
15.06.2023	1.42	RAID, backup	cancelled PSAS CP600i, PRAID CP600i, PRAID EP 3252-8i, PRAID EP 3254-8i, PRAID EP 3258-16i, PRAID EP 3258-16i NVMe, PSAS CP600i for LTO, PSAS CP 2100-8i for LTO	T. Sudou
16.06.2023	1.43	GFX	added the attention about noise	H.Okabe
10.07.2023	1.44	GFX, others	updated general rules for ATD40 and ATD45	H.Okabe
31.07.2023	1.45	HD_SSD	added the PCIe-SSD "Kioxia CM7 series"	Y. Sugiyama
31.07.2023	1.46	HD_SSD	revised the order codes for Kioxia CM7 15.36TB	Y. Sugiyama
07.08.2023	1.47	RAID	added RHEL 8.8, 9.2 and SLES15 SP5 to OS support matrix for SW-RAID	T. Sudou
22.08.2023	1.48	GFX	Change the released scdule(PYxVG4L1)	M.Takaoka
25.08.2023	1.49	others	updated General rules for ATD40 and ATD45	H.Okabe
08.09.2023	1.50	HD_SSD	added the EOL status for HDD SAS 15K and HDD 2.5" BC-SATA/SAS	Y. Sugiyama
19.09.2023	1.51	Energy Star restrictions	added E-Star Fam1 Certification for ENERGY STAR V4.0	H.Okabe
22.09.2023	1.52	HD_SSD	updated availability schedules added the following drives as new products -Samsung PM897a/PM893a as SSD SATA	Y. Sugiyama
03.10.2023	1.53	RAM, ODD, others	Add new order code for 8GB UDIMM, and current BTO order code will be EOL Add new order code for half height ODDs, and current order code will be EOL Add new TPM	H. Konno
13.10.2023	1.54	HD_SSD	updated EOL information for PCIe-SSD	Y. Sugiyama
23.10.2023	1.55	GFX	released NVIDIA L4	H.Okabe
30.10.2023	1.56	HD_SSD	revised the information about 2.5" SSD SATA for Samsung PM893a/PM897a	Y. Sugiyama
06.11.2023	1.57	RAID	updated Note for onboard SATA SW-RAID	T. Sudou
17.11.2023	1.58	others	added remark to Silent TX configuration	H.Okabe
20.11.2023	1.59	Energy Star restrictions	added the guidelines for ENERGY STAR V4.0	H.Okabe
01.12.2023	1.60	Description	added embedded Lifecycle Management (eLCM) to recommended components	H.Okabe
19.12.2023	1.61	RAM	update PYBME08UG2 which is EOLed	KonnoH
20.12.2023	1.62	RAM	update PYBME08UG2 EOL date	KonnoH
21.12.2023	1.63	USB devices	update Mouse and keyboard status	KonnoH
22.12.2023	1.64	RAM	change PYBME08UG2 EOL date	KonnoH
14.02.2024	1.65	ODD	add the restriction of ODD	KonnoH
16.02.2024	1.66	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
22.02.2024	1.67	ODD	remove available date for DV122 and DR122	KonnoH
01.03.2024	1.68	HD_SSD	added the restriction for SSD SATA PM893a/PM897a updated availability schedule	Y. Sugiyama
04.03.2024	1.69	others	remove PY-TPM19 and PYBTPM19 add PYBNTPM and information	KonnoH
22.03.2024	1.7	ODD	added/changed comments for DVD-ROM and DVD-RW	KonnoH
25.03.2024	1.71	others	revised the description about iRMC MicroSD card option for eLCM	Y. Sugiyama