PRIMERGY TX1320 M6 Compact Tower 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 TX1320 M6
2	Dase	describes rack mount kits and services
3	CPU	Order code and Infos of processors
4	RAM	DDR5 System memory (RAM) and memory modes
5	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors
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	RDX drive
10	HD_SSD	Storage drives - SAS/SATA SSD & HDD
11		LAN Components
12	LAN_FC_IB	Fibre Channel Controller (n.a. for TX1320 M6)
13		Infiniband Controller (n.a. for TX1320 M6)
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 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, ...

For example:

I I
S26361-F4610-E2
S26361-F4610-L3
PLAN 2x1Gb Ethern. Controller
i350-T2 chip (based on Intel Powerville)
offers 2x1Gb RJ45 connectors
PCIe Gen2 x4 full height card
max. 6x per system

- <-- order code E-part (bold) --
- <-- order code L-part (bold)
- <-- "name" of this part
- <--description of this part, in same cases as well description of content
- <--requires a free PCIe slot --> means total amount of PCIe slots reduced
- <--indicates how often this part can be configured in the related Server

PYBVAP04 PY-VAP04 Front VGA connector (15-pin) Front VGA connector (15-pin) including cable and front connector Not for 10x3.5", 32xEDSFF Base unit max. 1x per system

- <-- "PYB" order code (bold) for BTO(Built to Order) part
- <-- "PY-" order code (bold) for Loose delivery part
- <-- "name" of this part
- <--description of this part, in same cases as well description of content
- <-- Limitation for this part
- <--indicates how many this part can be configured in the related Server

For further information see:

Link to datasheet:

https://sp.ts.fujitsu.com/dmsp/Publications/public/ds-py-tx1320-M6.pdf

https://www.fujitsu.com/global/products/computing/servers/primergy/index.html (internet)

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

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FAN & PCI Card

The FAN speed may change depending on the combination of a server and installed PCI card.

When using certain PCIe cards, the FAN may continuously operate at a high speed, which could cause more noise than usual.

To find FAN behavior with PCI Card, refer to "iRMC Usage Note" document at the Technical Support page.

Abbreviations

SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS3.0 = 12GBit/s; SAS4.0 = 24GBit/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
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- <u>E</u> 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- <u>L</u> 240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

The PRIMERGY TX1320 M6 Server is available in 3 versions:

Start

choose base unit

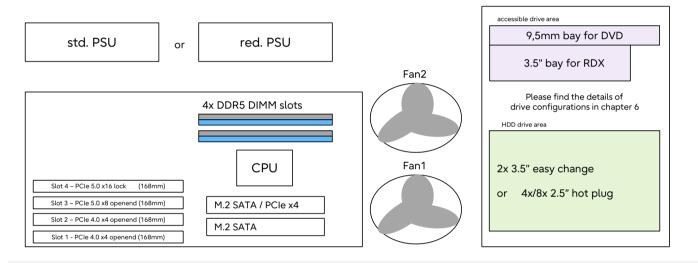
- Easy change base unit for 2x 3.5" non hot plug HDD w/std. PSU
- hot plug base base unit for 4x/8x 2.5" hot plug HDD/SSD w/std. PSU
- hot plug base base unit for 4x/8x 2.5" hot plug HDD/SSD w/red. PSU

choose backup option

- Independent from the base unit you can configure an RDX backup drive
- choose optical drive

Select 9,5mm DVD or Blu Ray drive

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



recommended components for TX1320 M6	#
embedded Lifecycle Management (eLCM)	1x

Chapter 1 - base unit

Start

Base Unit

For the PRIMERGY TX1320 M6 you can choose between different base units:

- a version using a standard or an hot plug PSU and supporting up to 2x 3.5" easy change (non hot plug) SATA HDDs
- a version using either a standard or an hot plug PSU and supporting up to 4x/8x 2.5" hot plug SAS/SATA HDDs or 4x 2.5" hot plug SAS/SATA HDDs

HDD Extension Box

The base units supporting hot plug HDDs may be extended to 8x 2.5" HDD by using the optional 2nd HDD backplane.

Server Management

iRMC S6 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls You can 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 D4132 based on Chipset Intel® C266

> cables for connection to the modular or onboard controllers included

> Xeon E2400 series CPUs and Pentium CPUs

Slots:

Slot 4 PCIe 5.0 x8 or x16 (with lock) - supports GPGPU/GPU or RAID card option

Slot 3 PCIe 5.0 x8 or x0 (openend) - supports GPGPU/GPU or RAID card option

Slot 2 PCIe 4.0 x4 (openend)

Slot 1 PCIe 4.0 x4 (openend)

All PCIe slots are low profile (lp) with supporting cards w/ max 168mm length

*Slot 4 and Slot 3 can be switched 2x PCIe 5.0 x8 or 1x PCIe 5.0 x16

System RAM

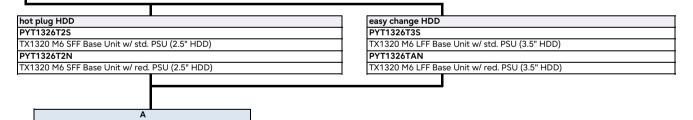
Up to DDR5 4400 MT/s

4 memory slots for max. 128GB DDR5 RAM.

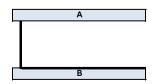
LAN

Connectivity				
Interfaces at rear side	Interfaces at front			
2x LAN RJ45 (1 Gbit)	1x USB 3.2 Gen2x2 Type C			
1x service LAN RJ45 (1 Gbit)	1x USB 3.2 Gen1 Type A			
1x VGA (15 pins)	Interfaces internal			
6x USB 3.2 Gen1 Type A	1x internal USB 3.2 Gen1 connectors for backup devices			
1x RS-232-C (serial, 9 pin) - optional	2x M.2 (80mm and 110mm)modules: 1x SATA/NVMe(PCIe x4) and 1x SATA			
	1 v Mini SATA (Av SATA 6G)			

For converting the base units with standard PSU, to converet redundant PSU use this conversion kit: ${\bf PY-TKPC05}$



Chapter 2 - Rack architecture



Rackmount not supported by TX1320 M6

Chapter 3- CPU

В

One of following CPU's has to be selected for an orderable basic unit(max 1x) Xeon E-24xx will be EOL on June 30th, as long as stock available

				PY*ME16UH/ PY*ME32UH	PY*ME16UH2/ PY*ME32UH1	
Pentium (Alder Lak	ce)	order code	order code		•	
64-bit Intel Pentiun	n processor supporting DDR5 @ 4800MT/s	(BTO)	(Loose delivery)			
Pentium Gold G740	2C/4T 3.7GHz 6MB 4800MT/s 46W	PYBCP67C1	-	0	0	
Xeon E-24xx (Rapt	or Lake-E)	order code	order code			
64-bit Intel Xeon pi	rocessor supporting DDR5 @ 4800MT/s	(BTO)	(Loose delivery)			
Xeon E-2414	4C/4T 2.6GHz 12MB 4800MT/s Turbo 55W	PYBCP67E7	-	0	0	
Xeon E-2434	4C/8T 3.4GHz 12MB 4800MT/s Turbo 55W	PYBCP67E8	-	0	0	
Xeon E-2436	6C/12T 2.9GHz 18MB 4800MT/s Turbo 65W	PYBCP67E1	-	0	0	
Xeon E-2456	6C/12T 3.3GHz 18MB 4800MT/s Turbo 80W	PYBCP67E2	-	0	0	
Xeon E-2486	6C/12T 3.5GHz 18MB 4800MT/s Turbo 95W	PYBCP67E3	-	0	0	
Xeon E-2468	8C/16T 2.6GHz 24MB 4800MT/s Turbo 65W	PYBCP67E4	-	0	0	
Xeon E-2478	8C/16T 2.8GHz 24MB 4800MT/s Turbo 80W	PYBCP67E5	-	0	0	
Xeon E-2488	8C/16T 3.2GHz 24MB 4800MT/s Turbo 95W	PYBCP67E6	-	0	0	
				PY*ME16UH/ PY*ME32UH	PY*ME16UH2/ PY*ME32UH1	
Xeon 63xx (Raptor	Lake-E Refresh)	order code	order code		•	
64-bit Intel Xeon pi	rocessor supporting DDR5 @ 4800MT/s	(BTO)	(Loose delivery)			
Xeon 6315P	4C/4T 2.8GHz 12MB 4800MT/s Turbo 55W	PYBCP6AE1	-		0	
Xeon 6325P	4C/8T 3.5GHz 12MB 4800MT/s Turbo 55W	PYBCP6AE2	-		0	
Xeon 6333P	6C/12T 3.1GHz 18MB 4800MT/s Turbo 65W	PYBCP6AE3	-		0	
Xeon 6337P	6C/12T 3.5GHz 18MB 4800MT/s Turbo 80W	PYBCP6AE4	-		0	
Xeon 6349P	6C/12T 3.6GHz 18MB 4800MT/s Turbo 95W	PYBCP6AE5	-		0	
Xeon 6353P	8C/16T 2.7GHz 24MB 4800MT/s Turbo 65W	PYBCP6AE6	-		0	
Xeon 6357P	8C/16T 3.0GHz 24MB 4800MT/s Turbo 80W	PYBCP6AC1	-		0	
Xeon 6369P	8C/16T 3.3GHz 24MB 4800MT/s Turbo 95W	PYBCP6AE7	-		0	

Chapter 4 - DDR5 System memory

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.

The memory speed depends on memory configuration:

Single channel memory configuration: max. 4,400 MT/s Dual channel memory configuration(1R): max. 4,000 MT/s Dual channel memory configuration(2R): max. 3,600 MT/s

Max. 128GB unbuffered DDR5 RAM for UDIMMs with 32GB moduls

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.

The following types of memory cannot be mixed
- PY*ME16UH and PY*ME16UH2

PY*ME32UH and PY*ME32UH1 (*: B=BTO, -: loose delivery)

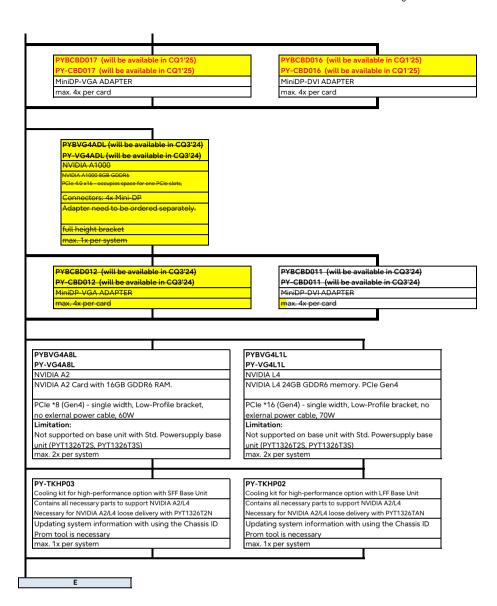
16GB DDR5 Unbuffered DIMM 4800MT/s 1R x8	order code (BTO)	order code (loose delivery)	
16GB (1x16GB) 1Rx8 DDR5-4800 U ECC	PYBME16UH	PY-ME16UH	
32GB DDR5 Unbuffered DIMM 4800MT/s 2R x8	order code (BTO)	order code (loose delivery)	
32GB (1x32GB) 2Rx8 DDR5-4800 U ECC	dual rank	PYBME32UH	PY-ME32UH
min 1 v / may 4 v for System			

16GB DDR5 Unbuffered DIMM 4800MT/s 1R x8	order code (BTO)	order code (loose delivery)	
16GB (1x16GB) 1Rx8 DDR5-4800 U ECC	PYBME16UH2	PY-ME16UH2	
32GB DDR5 Unbuffered DIMM 4800MT/s 2R x8	order code (BTO)	order code (loose delivery)	
32GB (1x32GB) 2Rx8 DDR5-4800 U ECC	dual rank	PYBME32UH1	PY-ME32UH1
min 1x / max 4x for System			

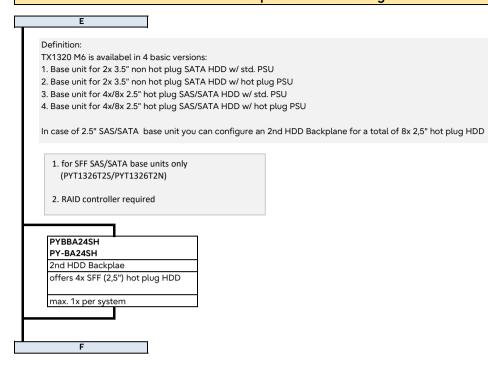
D

Chapter 5 - Graphics cards

D The different GPU mixed configuration does not support. PYBVG4T2L (EOL in Aug in 2025) PY-VG4T2L (EOL in Aug in 2025) NVIDIA T400 NVIDIA T400 4GB GDDR6 PCle 3.0 x16 Connectors: 3x Mini-DP no cable kit included power cables from PSU need to be ordered separately. Low profile max. 1x per system The high end optional NVIDIA Quadro T400 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 is One cable case S26361-F4066-E12(1pcs) or S26361-F4066-E13(1pcs) S26361-F4066-E11 S26361-F4066-L11 MiniDP-DP ADAPTER Two cables case S26361-F4066-E12(2pcs) or S26361-F4066-E13(2pcs) or S26361-F4066-E12(1pcs)/ S26361-F4066-E13(1pcs) max. 3x per card Three cables case \$26361-F4066-F12 \$26361-F4066-F13 \$26361-F4066-E12(3pcs) or \$26361-F4066-E13(3pcs) or \$26361-F4066-E13(3pcs) or \$26361-F4066-E12(1pcs)/\$26361-F4066-E13(2pcs) or \$26361-F4066-E12(2pcs)/\$26361-F4066-E13(1pcs) S26361-F4066-L13 S26361-F4066-L12 DP-VGA ADAPTER DP-DVI ADAPTER max. 3x per card max. 3x per card S26361-F4066-E11 is One cable case S26361-F4066-E12(1pcs) or S26361-F4066-E13(1pcs) PYBVG4AEL PY-VG4AEL Two cables case \$26361-F4066-E12(2pcs) or NVIDIA A400 S26361-F4066-E13(2pcs) or S26361-F4066-E12(1pcs)/ S26361-F4066-E13(1pcs) NVIDIA A400 4GB GDDR6 PCIe 4.0 x8 - occupies space for one PCIe slots, Connectors: 4x Mini-DP Three cables case Inree cables case \$26361-F4066-E12(3pcs) or \$26361-F4066-E13(3pcs) or \$26361-F4066-E12(1pcs)/\$26361-F4066-E13(2pcs) or \$26361-F4066-E12(2pcs)/\$26361-F4066-E13(1pcs) Adapter need to be ordered separately. Low profile bracket max. 1x per system Four cables caser S26361-F4066-E12(4pcs) or S26361-F4066-E13(4pcs) or \$26361-F4066-E12(1pcs)/\$26361-F4066-E13(3pcs) or \$26361-F4066-E12(2pcs)/\$26361-F4066-E13(2pcs) or \$26361-F4066-E12(3pcs)/\$26361-F4066-E13(1pcs) S26361-F4066-E11 S26361-F4066-L11 MiniDP-DP ADAPTER max. 4x per car S26361-F4066-E12 S26361-F4066-E13 S26361-F4066-L12 S26361-F4066-L13 DP-VGA ADAPTER DP-DVI ADAPTER max. 4x per card max. 4x per card



Chapter 6 - HD drive cage



Chapter 7 - SAS / RAID Controller

onboard SATA controller with SW-RAID

max number of drives depends on base units

onboard controller for SATA HDD or SSD drive

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

internal HBA and RAID controller, no 2nd Level cache

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

PYBSR4FAL PY-SR4FA PRAID CP600i LP No Cache RAID 0. 1. 10 1x

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3808 internal RAID / HBA controllers for SAS, SATA HDD or SSD drives

PRAID CP500i LP PYBSR3FBL PY-SR3FB No Cache

portant: New OS Support

This controller does not support versions later than the following:

Windows Server 2025

Red Hat Enterprise Linux 9

SUSE Linux Enterprise Server 15

VMware ESXi 8.0

When designing systems, consider the OS support lifecycle. If support for the newer OS is required, explore alternative controllers.

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

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

PSAS CP 2200-16i LP No Cache HBA + RAID 0, 1, 10, 5 1x PYBSC4MA1L PY-SC4MA1

16 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander

equires 1x LP PCIe 4.0 x8 (int.) slot

internal RAID controller with 2nd Level cache

internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP640i LP RAID 0, 1, 10, 5, 50, 6, 60 PYBSR4C63L PY-SR4C63

8 ports 3. 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, based on LSI SAS3908 PRAID EP680i LP 8GB Cache

RAID 0, 1, 10, 5, 50, 6, 60 1x PYBSR4C6L PY-SR4C6

16 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 16 SAS/SATA drives without expander

supports SED (Self Encrypting Drives)

requires 1x LP PCIe 4.0 x8 (int.) slot, b internal RAID controllers for SAS, SATA HDD or SSD drives

PRAID EP520i LP S26361-F4042-E202 S26361-F4042-L502 RAID 0. 1. 1E. 10. 5. 50. 6. 60

oortant: New OS Support

This controller does not support versions later than the following:

Windows Server 2025

Red Hat Enterprise Linux 9

SUSE Linux Enterprise Server 15

VMware ESXi 8.0

When designing systems, consider the OS support lifecycle. If support for the newer OS is required, explore alternative controllers.

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

optional Flash Backup Unit (FBU)

FBU option for PRAID EP5xx / EP6xx: Supercap securing the power supply of the RAID controller in S26361-F4042-E155 S26361-F4042-L110

case of power failure including cable with 55cm length

internal RAID controllers for SAS, SATA HDD or SSD drives

2GB Cache PYBSR4MA1L PY-SR4MA1 PRAID EP 3252-8i LP RAID 0, 1, 10, 5, 50, 6, 60

8 ports 6, 12 & 24Gb/s SAS/SATA HDD/SSD, supports up to 8 drives without expander

supports SED (Self Encrypting Drives)

equires 1x LP PCIe 4.0 x8 (int.) slot optional Flash Backup Unit (FBU)

FBU option for PRAID EP 325x: Supercap securing the power supply of the RAID controller in case of 1x PYBFBM012 PY-FBM01

power failure including cable with 46cm length

up to 1x FBU can be integrated per System

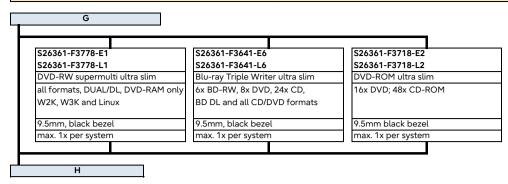
Cable kit for upgrade cards: For upgrade L-parts RAID/HBA controller card, L-parts Cable kit is required.

Cable Kit for EP6xxi/CP6xxi/EP325x/CP2200: PY-CBS118

Cable Kit for EP520i/CP500i: PY-CBS133

G

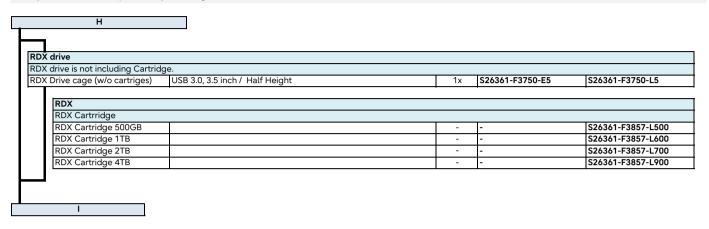
Chapter 8 - ODD optical disk drives



Chapter 9 - backup drives

- Definition:
 TX1320 M6 is availabel in 4 basic versions:
 1. Base unit for 2x 3.5" non hot plug SATA HDD w/ std. PSU
 2. Base unit for 2x 3.5" non hot plug SATA HDD w/ hot plug PSU
 3. Base base unit for 4x/8x 2.5" hot plug HDD w/ std. PSU
 4. Base base unit for 4x/8x 2.5" hot plug HDD w/ hot plug PSU

In any case an RDX backup drive may be configured.



Chapter 10 - storage drives

SATA drives can be connected to the onboard Controller (max. 8x), or require a dedicated SAS / RAID Controller.

SAS drives require a dedicated SAS / RAID Controller.

PCIe-SSDs can be connected to the onboard Controller, or require a dedicated RAID Controller or PCIe retimer/switch card.

FIPS and SED drives are Self Encrypting Drives, and they require either a RAID controller with SED support or an HBA and in addition a software instance, supporting SED Key Management. It is strongly recommended to order a RAID controller with SED function for SED/FIPS drives.

FIPS and SED drives must not order for China region.

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

Hard Disk Sector Format Information: 512n HDD: 512 byte sectors on the drive media. 512e (esemulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration. DWPD: Drive Writes Per Day over 5 years.

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

HDD classes:

Economic (ECO) SATA: Entry Class Drives, for non critical applications.

Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.

Business-Critical (BC) -SAS=Nearline SAS Enterprise Drives / 7.2Krpm, SAS 12G.

Mission-Critical (MC)=SAS 10K and SAS 15K Enterprise Drives with max. performance and reliability.

Warranty: SSD has 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

The SSDs not released with PRAID CP500i

SSD SATA 2	SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray									
based on Sam	based on Samsung PM897a drives									
Capacity	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	3.84TB 2.5°(SFF) SATA 6Gb/s Mixed Use 3 SED PYBSS38NKS PY-SS38NKS									
This SSDs can	be used as Non-5	SED drives, but it r	equires a RAID controll	er with SEC	support for using as SED dri	ives.				

max. 8x - depending on base unit & configuration

EOL, as long as stock available

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray										
based on Samsung PM897 drives										
Capacity	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	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. 8x - depe	nding on base ur	nit & configuration	1							

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray									
based on Micr	on 5400 MAX dri	ves							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part		
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		PYBSS48NQ	PY-SS48NO		
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		PYBSS96NQ	PY-SS96No		
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0		PYBSS19NQ	PY-SS19NO		
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5		PYBSS38NQ	PY-SS38NO		
max. 8x - depe	max. 8x - depending on base unit & configuration								

	The SSDS	not released with	PRAID CP5001							
SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray										
based on Samsung PM893a drives										
Capacity	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	7.68TB 2.5" (SFF) SATA 6Gb/s Read Intensive 1,0 SED PYBSS76NME PY-SS76NME									
This SSDs can	be used as Non-S	SED drives, but it r	equires a RAID controll	er with SED	support for using as SED dr	ives.				

EOL, as long as stock available

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray									
based on Sam	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. 8x - depe	nding on base ur	it & configuration							

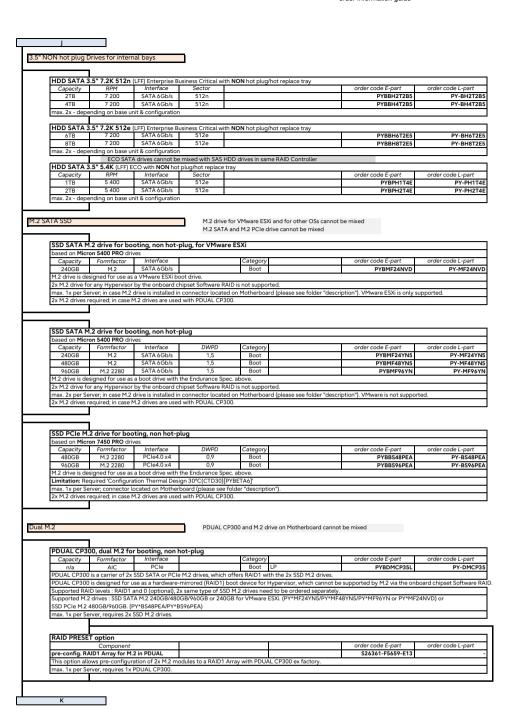
SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray based on Micron 5400 PRO drives PYBSS76NMF PY-SS76NMF

2.5" (SFF) Hard drive

HDD SAS 2.5	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	PYBSH301EB	PY-SH301EB				
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				
max. 8x - depe	nding on base ur	nit & configuration	1						

	HDD SAS 2.5" 10K 512e (SFF) Enterprise Mission Critical with hot plug/hot replace tray						
Capacity	RPM	Interface	Sector	order code E-part	order code L-part		
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5730-E118	S26361-F5730-L118		
2.4TB	10 000	SAS 12Gb/s	512e	S26361-F5543-E124	S26361-F5543-L124		
max. 8x - dependir	ing on base uni	it & configuration					

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Chapter 11 - Communications / Ethernet Network Components

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PRIMERGY TX1320 M6 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

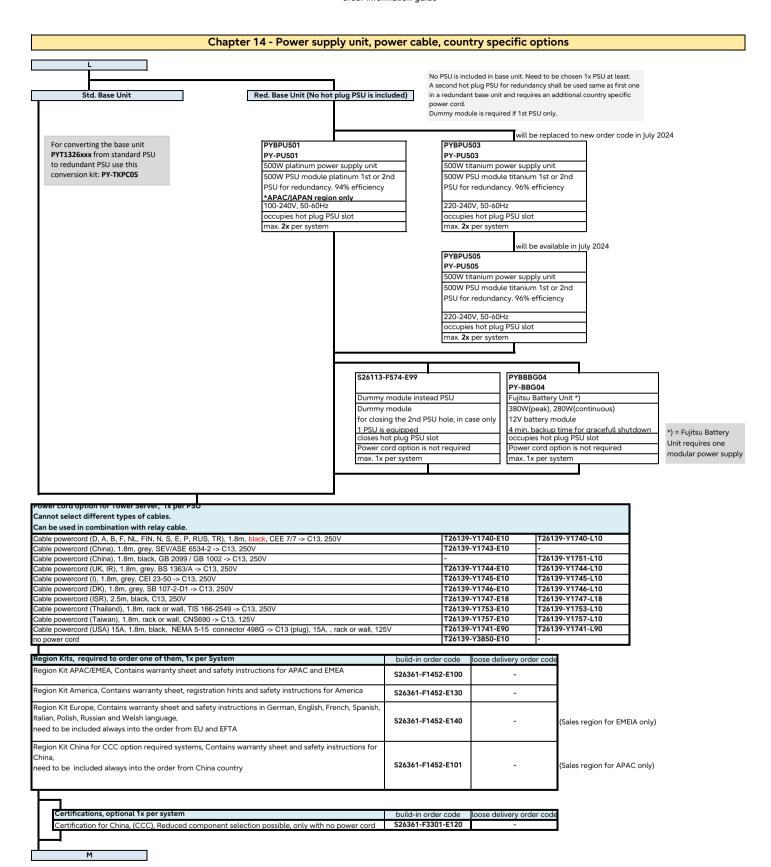
Network PCIe Adapters

Broadcom 1GbE BEASE-T for PCIe				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe LP	2x	Broadcom, 1GTx4port	PYBLA284L	PY-LA284
nax. 2x adapters per system				
ntel 1GbE BEASE-T for PCIe				
PLAN CP 2x1Gbit Cu Intel I350-T2 LP	2x	Intel, 1GTx2port	S26361-F4610-E202	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4 LP	2x	Intel, 1GTx4port	S26361-F4610-E204	S26361-F4610-L504
max. 2x adapters per system (both I350-T2 and I35	0-T4 in to	otal)		
Broadcom 10GbE BEASE-T for PCIe				
PLAN EP P210TP 2X 10GBASE-T PCIe LP	2x	Broadcom, 10GTx2port	PYBLA3K2L	PY-LA3K2
max. 2x adapters per system				
ntel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2x10GBASE-T LP	2x	Intel, 10GTx2port	PYBLA342L	PY-LA342
PLAN EP X710-T4L 4x10GBASE-T LP	2x	Intel, 10GTx4port	PYBLA344L	PY-LA344
max. 2x adapters per server system				
Broadcom 10GbE for PCIe				
Each cage consumes 1x optical SFP+ transceiver p				
Dual rate 10G/1G support requires 10G/1G Dual R				
All ports on this card need to install the same Parts	s Number	of optical module.		
PLAN EP P210P 2x10Gb SFP PCIe LP	2x	Broadcom, 10Gx2port	PYBLA3J2L	PY-LA3J2
Optional, 10Gb SFP+ optical transceiver mod	ule, selec	t one per cage		
SFP+ Module Multi Mode Fiber 10GbE LC	2x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6
max. 1x per port	<u> </u>	1		

Intel 10GbE for PCIe						
Each cage consumes 1x optical SFP+ transceiver per port.						
Rate SFP+ C	Optical Transceiver Modules.					
ts Number	of optical module.					
2x	Intel, 10Gx2port	S26361-F3640-E202	S26361-F3640-L502			
2x	Intel, 10Gx4port	S26361-F3640-E204	S26361-F3640-L504			
Optional, 10Gb SFP+ optical transceiver module, select one per cage						
4x	Finisar, 10G SR SFP+	S26361-F3986-E3	S26361-F3986-L3			
4x	Intel, 1G/10G SR SFP+	S26361-F3986-E5	S26361-F3986-L5			
4x	Intel, 1G/10G LR SFP+	S26361-F3986-E6	S26361-F3986-L6			
max. 1x per port						
max. 2x adapters per system						
	Rate SFP+ C ts Number of 2x 2x 2x dule, select 4x 4x	Rate SFP+ Optical Transceiver Modules. ts Number of optical module. 2x	Rate SFP+ Optical Transceiver Modules. ts Number of optical module. 2x			

ach cage consumes 1x optical SFP28 or SFP+ tra Il ports on this card need to install the same Par 0G SFP BTO is not available for 25G cards, pleas	ts Number	of optical module.		
LAN EP P225P 25Gb 2p SFP28 PCIe LP	2x	Broadcom, 25Gx2port	PYBLA3H2L	PY-LA3H2
Optional, 25Gb SFP28 optical transceiver me	odule with	LC connector, each cage consumes one.		
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
max. 1x per port				
Optional, 10Gb SFP+ optical transceiver mo	dule, each o	cage consumes one.		
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Transceiver 10G/1G Dual Rate LR 2x		Intel. 1G/10G LR SFP+		S26361-F3986-L6

Each cage consumes 1x optical SFP28 or SFP+ tr		•		
All ports on this card need to install the same Pa				
0G SFP BTO is not available for 25G cards, plea	se select L p	parts.		
PLAN EP E810-XXVDA2 2x25Gb LP	2x	Intel, 25Gx2port	PYBLA402L	PY-LA402
Optional, 25Gb SFP28 optical transceiver m	odule with I	C connector, each cage consumes one.		
SFP28 25G SR E25GSFP28SRX LC	2x	Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
max. 1x per port				
Optional, 10Gb SFP+ optical transceiver mo	dule, each c	age consumes one.		
SFP+ Transceiver 10G/1G Dual Rate SR	2x	Intel, 1G/10G SR SFP+		S26361-F3986-L5
SFP+ Transceiver 10G/1G Dual Rate LR	2x	Intel, 1G/10G LR SFP+		S26361-F3986-L6
max. 1x per port				
nax. 2x adapters per system				
nun. En uduptera per ayaterri				
ina. 24 adapters per system				
VIDIA 25GbE for PCIe				
IVIDIA 25GbE for PCIe	ansceiver ne	ar nort		
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr				
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr	rts Number	of optical module.		
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr	rts Number	of optical module.		
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr	rts Number	of optical module.	PYBLA402L4	PY-LA4024
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai 0G SFP BTO is not available for 25G cards, plea	rts Number se select L p	of optical module. parts. NVIDIA, 25Gx2port	PYBLA402L4	PY-LA4024
INVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP	rts Number se select L p	of optical module. NVIDIA, 25Gx2port 1326TAN)	PYBLA402L4	PY-LA4024
IVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP Not supported on LFF(3.5"HDD) base unit (PYT13	rts Number se select L p	of optical module. NVIDIA, 25Gx2port 1326TAN)	PYBLA402L4 PYBSFPS56	PY-LA4024 PY-SFPS56
INVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP Not supported on LFF(3.5"HDD) base unit (PYT13 Optional, 25Gb SFP28 optical transceiver m SFP28 25G SR E25GSFP28SRX LC max. 1x per port	ets Number se select L p 2x 326T3S, PYT odule with I	of optical module. arts. NVIDIA, 25Gx2port 1326TAN) .C connector, each cage consumes one. Intel, 25G SR SFP28		
INVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP Not supported on LFF(3.5"HDD) base unit (PYT13 Optional, 25Gb SFP28 optical transceiver m SFP28 25G SR E25GSFP28SRX LC	ets Number se select L p 2x 326T3S, PYT odule with I	of optical module. arts. NVIDIA, 25Gx2port 1326TAN) .C connector, each cage consumes one. Intel, 25G SR SFP28		
INVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP Not supported on LFF(3.5"HDD) base unit (PYT13 Optional, 25Gb SFP28 optical transceiver m SFP28 25G SR E25GSFP28SRX LC max. 1x per port	ets Number se select L p 2x 326T3S, PYT odule with I	of optical module. arts. NVIDIA, 25Gx2port 1326TAN) .C connector, each cage consumes one. Intel, 25G SR SFP28		
AVIDIA 25GbE for PCIe Each cage consumes 1x optical SFP28 or SFP+ tr All ports on this card need to install the same Pai OG SFP BTO is not available for 25G cards, plea PLAN EP MCX6-LX 25Gb 2p SFP28 PCIe LP Not supported on LFF(3.5"HDD) base unit (PYT13 Optional, 25Gb SFP28 optical transceiver m SFP28 25G SR E25GSFP28SRX LC max. 1x per port Optional, 10Gb SFP+ optical transceiver mo	ts Number se select L p 2x 32673S, PYT odule with I 2x dule, each c	of optical module. parts. NVIDIA, 25Gx2port 1326TAN) .C connector, each cage consumes one. Intel, 25G SR SFP28 age consumes one.		PY-SFPS56



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Chapter 15 - Accessories М http://www.fujitsu.com/fts/products/computing/peripheral/accessories/index-facts.html USB Mouse: Mouse M520 Black S26381-K467-L100 APAC only Mouse M520 Grey S26381-K467-L101 APAC only USB Keyboards for Tower Servers for following countries: Country version FUJITSU Keyboard KB521 USB (grey) US/ int 105 keys (UK keyboard + US int. Layout) APAC only S26381-K521-L102 S26381-K521-L140 France APAC only S26381-K521-L180 Spain APAC only USB Optical Disc Drive External Ultra Slim Portable DVD Writer (Hitachi-LG S26341-F103-L142

Chapter 16 - others (Energy Star restrictions)

PYBES21

E-Star Fam1 Certification

RX/TX13x0 Mx E-Star Fam1

Limits configuration in accordance with Energy Star 4.0 requirements

max. 1x per system

limitations for E-Star Fam1certification.

please make sure to follow the guidelines below in order meet ENERGY STAR V4.0 Fam1 requirements:

<All base unit>

Not allowed:

- CPU: Pentium Gold G7400 (PYBCP67C1)
- CPU: Xeon E-2414 (PYBCP67E7) CPU: Xeon E-2434 (PYBCP67E8)
- CPU: Xeon 6315P (PYBCP6AE1)
- CPU: Xeon 6325P (PYBCP6AE2)

<PYT1326T3S, PYT1326TAN>

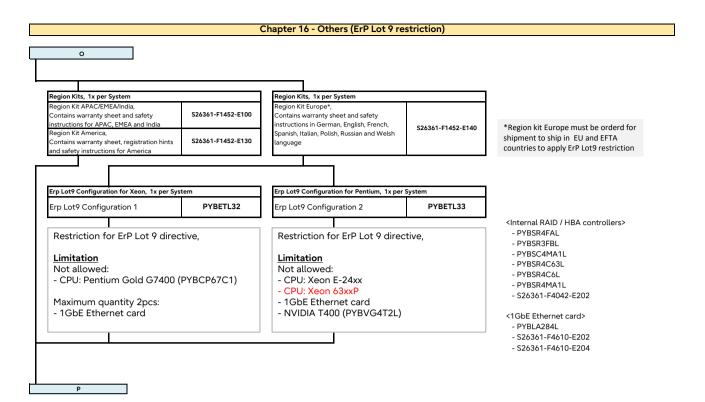
Maximum sotrage quantity 2pcs (HDD 3,5" LFF + SSD M.2)

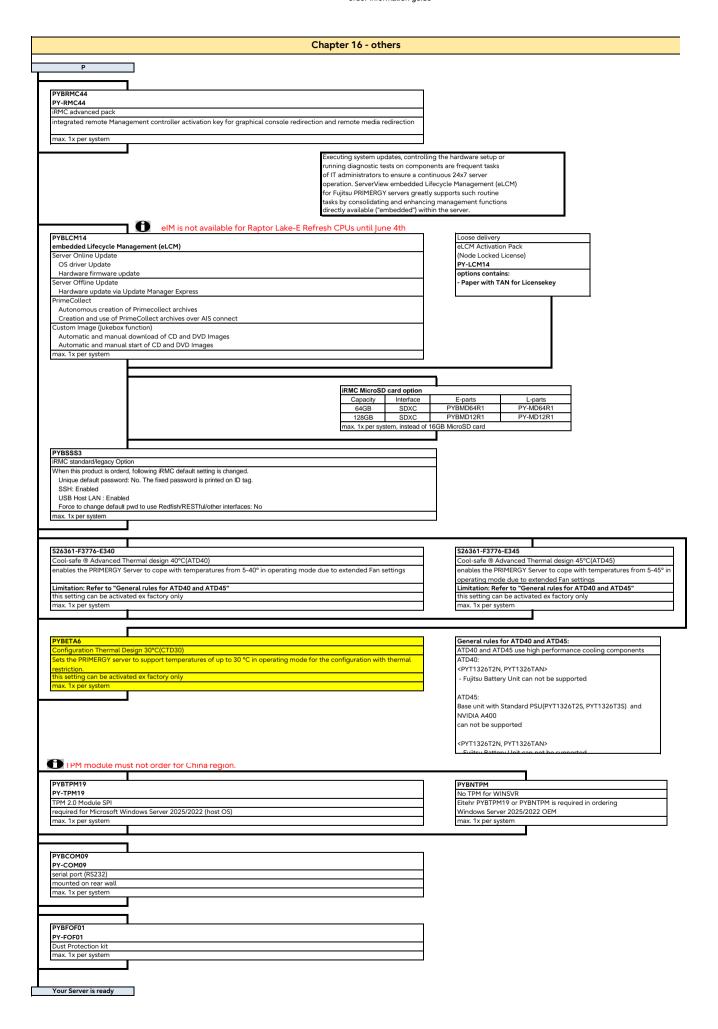
<PYT1326T2S, PYT1326T2N>

Maximum sotrage quantity 4pcs (HDD/SSD 2,5" SFF + SSD M.2)

ENERGY STAR-configurationen will be labeld: non ENERGY STAR-configurationen will be labeld: PRIMERGY TX1320 M6 E-Star Fam1 PRIMERGY TX1320 M6

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Date of change	Configurator revision	Folder / order code / description	What has been changed / comment
12.05.2025	1.40	GFX	Update T400 EOL.
14.04.2025	1.39	CPU	updated support DIMMs
28.03.2025	1,38	others	Added limitation note for eLCM
27.03.2025	1,37	Energy Star, ErP Lot9	updated with Xeon 63xxP
26.03.2025	1,36	RAM	Added Micron 2nd source DIMMs (PY*ME16UH2/PY*ME32UH1)
25.03.2025	1,35	CPU	updated with Xeon 63xxP and DIMM support list
06.03.2025	1,34	CPU	For Xeon E-24xx, DIMMs(PY*ME16UH2/ PY*ME32UH1) are supported.
10.02.2025	1,33	others	Update General rules for ATD40 and ATD45
24.12.2024	1.32	GFX	Update the miniDP cable information/A400.
10.12.2024	1.31	RAID	updated description for PRAID CP500i, EP520i
02.12.2024	1,30	PSU	Change the color of power cable(T26139-Y1740-L10) to black.
18.11.2024	1,29	Cover	Add the the FAN & PCI Card notes
18.11.2024	1,28	CPU	Added support DIMMs
15.11.2024	1,27	RAM	Moving 2nd Source DIMM Product Information (added in version 1.26) to Private Area (The 2nd source DIMM is changed to DDR5-5600->DDR5-4800.)
14.11.2024	1,26	RAM	Added Memory PY code (PY*ME16UH2, PY*ME32UH1) Adding memory restrictions (prohibiting the use of the newly added memory and the old memory)
12.11.2024	1.25	GFX	Update the miniDP cable for A400.
18.10.2024	1.24	RAID	released PRAID CP500i, EP520i
01.10.2024	1.23	PSU	Added instructions on how to select cables
26.09.2024	1,22	others	No TPM for WINSVR updated
18.09.2024	1.21	GFX	Update A400 release schedule.
11.09.2024	1.20	GFX	revised the typo about DVI cable.
04.09.2024	1.19	RAID, HD_SSD	updated availability schedule for PRAID CP500i, EP520i updated Note on New OS Support for PRAID CP500i, EP520i added restriction for SSD SATA PM893a/PM897a
29.08.2024	1,18	others	Deleted (will be available in CQ2'24) in PYBETA6)
29.08.2024	1,18	ErP Lot9	Add NVIDIA A400
18.06.2024	1.17	GFX	delete A1000
06.08.2024	1,16	PSU	Add bulk optinal of 500W low noise PSU.
30.07.2024	1.15	RAID	added Note on New OS Support to PRAID CP500i, EP520i
16.07.2024	1,14	HD_SSD	SSD PCle M.2 drive for booting, non hot-plug, Delete "(will be available in CQ2'24)", because of CTD30's VS40.
11.07.2024	1.13	GFX	Add A400
18.06.2024	1.12	GFX	Add A1000
06.06.2024	1.10	others	updated availability schedule for iRMC MicroSD
06.06.2024	1.10	HD_SSD	updated the description about storage drives of top area.
03.06.2024	1,09	HD_SSD	updated EOL schedule
29.05.2024	1,08	LAN	Delete NVIDIA SFP, S26361-F4054-E/L701 due to tab/nontab issue causes shortage of stocks.
29.05.2024	1.07	GFX	update T400 configraton
23.05.2024	1.06	RAID	update code number of new cable kit for PRAID CP500i, EP520i
16.05.2024	1.05	ErP Lot9	restricted CPU to avoid selecting incorrect Configuration
14.05.2024	1.04	RAID	added new cable kit for PRAID CP500i, EP520i
14.05.2024	1.04	ErP Lot9	Updated with PRAID CP500i, EP520i
09.05.2024	1.03	RAID	added PRAID CP500i, EP520i
10.04.2024	1.02	Cover	updated the address of "For further information see:"
25.03.2024	1.01	others	revised the description about iRMC MicroSD card options for eLCM
22.03.2024	1,00		1st release