# PRIMERGY TX1330 M6 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 M6	
2	Dase	describes rack mount kits and services	
3	CPU	Order code and Infos of processors	
4	RAM	DDR5 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 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:

#### 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

# PYRVAP04

#### 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-tx1330-m6-en.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)

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

# **Abbreviations**

-		extra shipment	
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234-L240" ordercode with "L" means, the part will be shipped with extra package, may be as well with	
		in the shipping box /Keyboard, Mouse,)	
E-Part	"Einbau-Part"	"e.g. S26361-F1234-E240" ordercode with "E" means it is either integrated into to Server (CPU, Mem,) or integrated	
OS	operating system	OS=operating system - required for running, organize and administrating the server	
ODD	Drives	optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)	
cold data	Drives	Data which are currently not processed (only stored)	
hot data	Drives	Data which are currently being processed	
storage tiering	RAID	offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")	
RAID	Drives, RAID	RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare	
CPU	Processor	central processing unit ("processor")	
LFF	Drives	large form factor (=3.5")	
SFF	Drives	small form factor (=2.5")	
SSD	Drives	Solid state disk (Non volatile storage device), 2.5" (SFF)	
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)	
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s	
SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS3.0 = 12GBit/s; SAS4.0 = 24GBit/s	

# PRIMERGY TX1330 M6 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 4.0 LFF HDD (then only a 9.5mm ODD can be configured)
- or optional 3rd cage for up to 8x 2.5" SAS/SATA 4.0 SFF HDD or SSD (then 1x 1.6" ODD/backup drive combination can be configured)

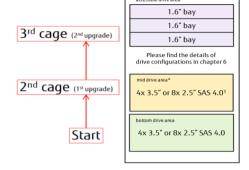
# mid drive area (yellow color code) - optional with

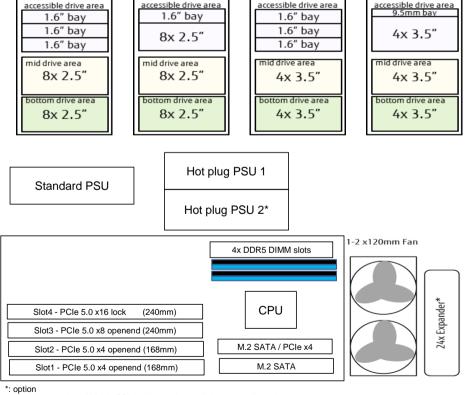
- space for 2nd cage with up to 4x 3.5" SAS/SATA 4.0 LFF HDD
- or space for 2nd cage for up to 8x 2.5" SAS/SATA 4.0 SFF HDD or SSD

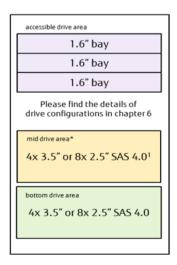
# bottom drive area (green color code) - mandatory with

- space for up to 4x 3.5" SAS/SATA 4.0 LFF HDD
- or space for up to 8x 2.5" SAS/SATA 4.0 SFF HDD or SSD

Please find all details, possible and released configurations in the chapter 6 - "HD\_cage"







1: with the exeption of NVMe SSDs either 2.5" or 3.5" drives are allowed

recommended components for TX1330 M6	
embedded Lifecycle Management (eLCM)	1x

#### Chapter 1 - base unit

#### Start

#### Power supply units & cooling

For the PRIMERGY TX1330 M6 you can choose between a standard power supply unit (PSU) with 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 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 or Pentium CPU

#### 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 (open end) - supports GPGPU/GPU or RAID card option

Slot 2 PCIe 4.0 x4 (open end)

Slot 1 PCIe 4.0 x4 (open end)

\*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.

#### ΙΔΝ

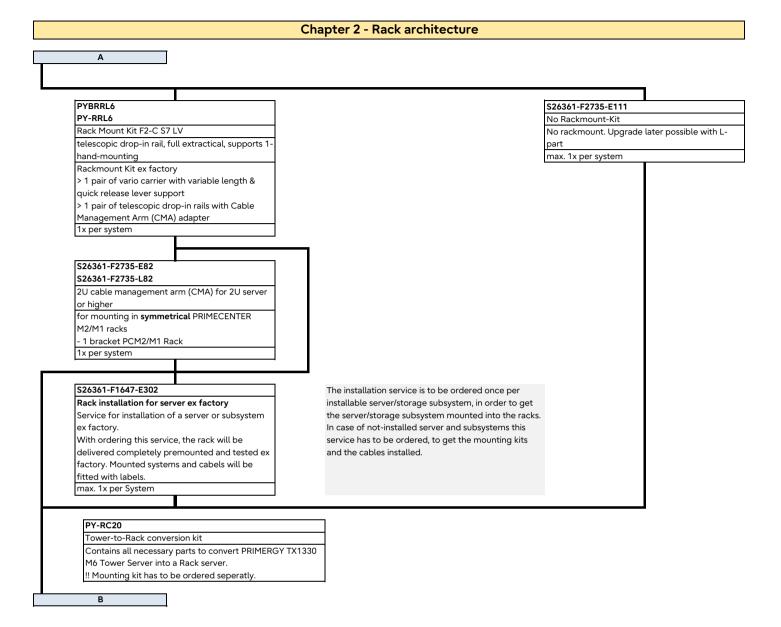
2x Intel i210 Gigabit Ethernet

#### Software

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

Connectivity		
Interfaces at rear side	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)	<u>Interfaces internal</u>	
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	
	1x Mini SATA (4x SATA 6G)	

Tower	Rack	
PYT1336TNS	to create an Rack Base Unit w/ standard PSU you can	
TX1330 M6 Base Unit standard 450W Platinum PSU	use the Tower-to-Rack conversion kit (PY-RC20)	
PYT1336TNN	PYT1336RNN	
TX1330 M6 Base Unit redundant Fan and hot plug PSU	TX1330 M6 Base Unit redundant Fan and hot plug PSU	
P	Δ.	



# Chapter 2' - Options for Base Unit B For later upgrade to redundancy the following PSU-kits are available: Std to Redundant Fan/PSU Upgrade Kit consisting of a redundant Fans w/ Airduct, PSU cage and backplane Does not contain any PSU module C

base

PYBCP67E5

PYBCP67E6

Xeon E-2478

Xeon E-2488

D

#### Chapter 3- CPU С One of following CPU's has to be selected for an orderable basic unit(max 1x) Pentium (Alder Lake) order code order code 64-bit Intel Pentium processor supporting DDR5 @ 4800MT/s Pentium Gold G7400 2C/4T 3.7GHz 6MB 4800MT/s 46W (BTO) (Loose delivery) PYBCP67C1 Xeon E-24xx (Raptor Lake-E) order code order code (BTO) (Loose delivery) 64-bit Intel Xeon processor supporting DDR5 @ 4800MT/s 4C/4T 2.6GHz 12MB 4800MT/s Turbo 55W PYBCP67E7 Xeon E-2414 PYBCP67E8 Xeon E-2434 4C/8T 3.4GHz 12MB 4800MT/s Turbo 55W Xeon E-2436 PYBCP67E1 6C/12T 2.9GHz 18MB 4800MT/s Turbo 65W PYBCP67E2 Xeon E-2456 6C/12T 3.3GHz 18MB 4800MT/s Turbo 80W 6C/12T 3.5GHz 18MB 4800MT/s Turbo 95W PYBCP67E3 Xeon E-2486 PYBCP67E4 Xeon E-2468 8C/16T 2.6GHz 24MB 4800MT/s Turbo 65W

8C/16T 2.8GHz 24MB 4800MT/s Turbo 80W

8C/16T 3.2GHz 24MB 4800MT/s Turbo 95W

# Chapter 4 - DDR5 System memory

D

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.

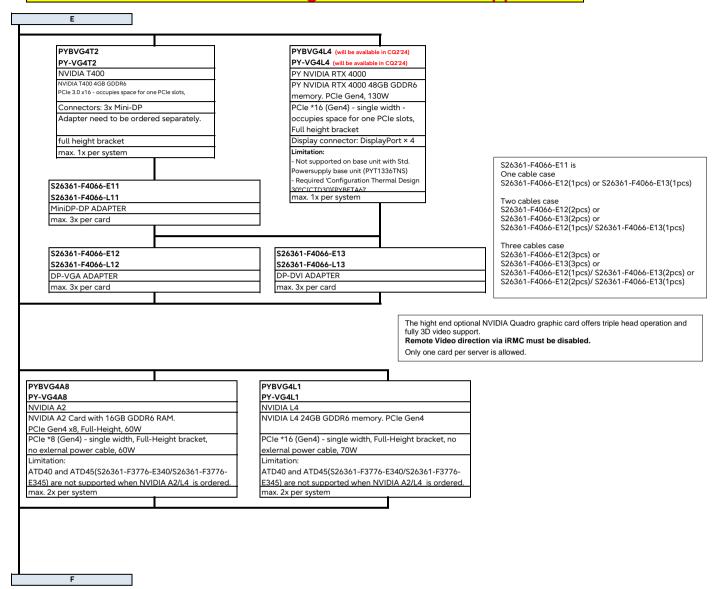
All memory module installing in one system must be identical.

Any mix of different memory modules with different order code is not supported.

16GB DDR5 Unbuffered DIMM 4800MT/s 1R x8		order code (BTO)	order code (loose delivery)
16GB (1x16GB) 1Rx8 DDR5-4800 U ECC single rank		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 1x / max 4x for System	•	•	•

## Chapter 5 - Graphics cards

# The different GPU mixed configuration does not support.



# Chapter 6 - HD drive cage

G 27-1

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 4.0 backplanes, SAS

4.0 cables and mounting materials). Kits for more than 8x SAS 4.0 HDD contain a 24x SAS 4.0 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

2.5"

1.6" bay	
1.6" bay	
bottom drive area 4x 3.5"	l
4X 3.5	l

2a) recommended RA	ID configuration	2b) possible RAID configu	ration
1x PYBSR4FA	PRAID CP600i FH	1x PYBSR4C63	PRAID EP640i FH
1x PYBSC4MA1	PSAS CP 2200-16i FH	1x PYBSR4C6	PRAID EP680i FH
		1x PYBSR4MA1	PRAID EP 3252-8i FH

3) accessible drive area	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available
4) PY-BA34SD	4x 3.5" HDD kit for mid drive area
4) PY-BA34SE	4x 3.5" HDD kit incl. Expander, SAS 4.0 BPL & cables for accessible drive area*
4) Restriction	upgrade of mid drive area and accessible drive area requires hot plug PSU Base Unit
5) Remark	up to 4x SATA HDD can be opperated using the onboard SATA controller
*\ D\/ D \ 2 \ (CD :   -+-	·

\*) PY-BA34SD is mandatory

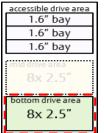
accessible drive area
1.6" bay
1.6" bay
1.6" bay
mid drive area 4x 3.5"
bottom drive area
4x 3.5"

1) PYBBA38S5	Medium 3.5" kit for 8x SAS 4.0 H	HDD mounted in the bottom and mid dr	ive area
2x 3.5" HDD cages for	up to 8x 3.5" HDD incl. SAS 4.0 Backpl	anes & SAS 4.0 cables mounted in the b	ottom and mid drive area
1) Restriction	hot plug PSU(50	0W/900W) is required	
1) Restriction	internal RAID co	ntroller is required	
2a) recommended RA	ID configuration	2b) possible RAID configu	ration
1x PYBSR4FA	PRAID CP600i FH	1x PYBSR4C63	PRAID EP640i FH
1x PYBSC4MA1	PSAS CP 2200-16i FH	1x PYBSR4C6	PRAID EP680i FH
		1x PYBSR4MA1	PRAID EP 3252-8i FH

3) accessible drive area	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available
4) PY-BA34SE	4x 3.5" HDD kit incl. Expander, SAS 4.0 BPL & cables for accessible drive area

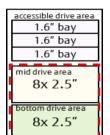


1) PYBBA3TS3	Maximum 3.5	Maximum 3.5" kit for 12x HDD mounted in the bottom, mid & accessible drive area						
3x 3.5" HDD cages for	bottom, mid and acc	esible drive area for up	to 12x 3.5" HDD incl. <b>24x</b> SAS 4.0	Expander, SAS 4.0 Backplanes & SAS 4.0 cables.				
HDD cage (acc. Area) a	are mounted directly	to the housing - highe	r noise levels may occur					
1) Restriction hot plug PSU(500W/900W) is required								
1) Restriction		internal RAID controll	er is required					
2a) recommended RAI	ID configuration		2b) possible RAID controll	lers				
1x PYBSR4FA	PRAID CP600	i FH	1x PYBSR4C63	PRAID EP640i FH				
1x PYBSC4MA1	PSAS CP 2200	)-16i FH	1x PYBSR4C6	PRAID EP680i FH				
			1x PYBSR4MA1	PRAID EP 3252-8i FH				
3) accessible drive are	a	!! 1x 9.5mm bay for ul	tra slim DVD or Blu Ray available					



1) PYBBA28SW			mounted in the bottom drive a	ii ea	
basic 2.5" HDD kit for	up to 8x 2.5" SAS 4	.0 HDD or SSD incl. SAS 4.0 E	Backplane & SAS 4.0 cable		
2a) recommended RA	ID configuration		2b) possible RAID controll	ers	
1x PYBSR4FA	PRAID CP6	00i FH	1x PYBSR4C63	PRAID EP640i FH	
1x PYBSC4MA1	PSAS CP 2	200-16i FH	1x PYBSR4C6	PRAID EP680i FH	
			1x PYBSR4MA1	PRAID EP 3252-8i FH	
3) accessible drive are	ea	3x 1.6" bays for DVD, Blu	Ray, LTO or RDX drives	<u> </u>	
· · · · · · · · · · · · · · · · · · ·		,			
4) PY-BA28SX		8x 2.5" HDD kit for mid d	rive area incl. Expander, SAS 4.0	BPL & cables	
4) PY-BA28SY		8x 2.5" HDD kit SAS 4.0 B	4.0 BPL & cables for accessible drive area*		
4) Restriction Upg		upgrade of mid drive are	a and accessible drive area req	uires hot plug PSU Base Unit	
•			·	• •	
5) Remark		up to 4x SATA HDD can b	be opperated using the onboard	d SATA controller	

\*) PY-BA28SX is mandatory



1) PYBBA2SS9	Medium 2.5"	Medium 2.5" kit for 16x SAS 4.0 HDD or SSD mounted in the bottom & mid drive area					
mid 2.5" HDD kit for u	p to 16x 2.5" SAS 3.0	HDD or SSD incl. 24x SA	S 4.0 Expander, SAS 4.0 Backplan	es & SAS 4.0 cable			
1) Restriction		hot plug PSU(500W/90	g PSU(500W/900W) is required				
1) Restriction		internal RAID controlle	er is required				
2a) recommended RA	ID configuration		2b) possible RAID control	lers			
1x PYBSR4FA	PRAID CP600	i FH	1x PYBSR4C63	PRAID EP640i FH			
1x PYBSC4MA1	PSAS CP 220	0-16i FH	1x PYBSR4C6	PRAID EP680i FH			
			1x PYBSR4MA1	PRAID EP 3252-8i FH			
3) accessible drive are	ea	3x 1.6" bays for DVD, E	Blu Ray, LTO or RDX drives or addi	tional HDD cages available			
4) PY-BA28SY		8x 2.5" HDD kit SAS 4.0	BPL & cables for accessible drive	e area			

accessible drive area
1.6" bay

8x 2.5"

mid drive area
8x 2.5"

bottom drive area
8x 2.5"

1) PYBBA2LS6	Advanced 2	Advanced 2.5" kit for 24x SAS 4.0 HDD or SSD mounted in the bottom, mid and accessible drive area						
Supreme 2.5" HDD kit	for up to 24x 2.5" S	SAS 4.0 HDD or SSD inc	l. 24x SAS 4.0 Expander, SAS 4.0 Bac	kplanes & SAS 4.0 cable. ! HDD cages are				
mounted directly to th	ne housing - higher	noise levels may occur						
1) Restriction		hot plug PSU(500W	not plug PSU(500W/900W) is required					
1) Restriction		internal RAID contro	oller is required					
2a) recommended RA	ID configuration		2b) possible RAID control	lers				
1x PYBSR4FA	PRAID CP6	00i FH	1x PYBSR4C63	PRAID EP640i FH				
1x PYBSC4MA1	PSAS CP 22	.00-16i FH	1x PYBSR4C6	PRAID EP680i FH				
			1x PYBSR4MA1	PRAID EP 3252-8i FH				
3) accessible drive are	ea	1x 1.6" bays for DVD	), Blu Ray, LTO or RDX drives availab	le				
no upgrades possible								

Н

# 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 drives

6Gb/s SATA Intel VROC (SATA RAID) based on 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

1x PYBSR4FA PY-SR4FA PRAID CP600i FH No Cache RAID 0. 1. 10

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

supports SED (Self Encrypting Drives)

requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3808

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

PSAS CP 2200-16i FH 1x PYBSC4MA1 PY-SC4MA1 No Cache HBA + RAID 0, 1, 10, 5

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

requires 1x FH 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 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

supports SED (Self Encrypting Drives)

requires 1x FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3908 PRAID EP680i FH 8GB Cache 1x PYBSR4C6 RAID 0, 1, 10, 5, 50, 6, 60 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 FH PCIe 4.0 x8 (int.) slot, based on LSI SAS3916

optional Flash Backup Unit (FBU)

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

power failure including cable with 55cm length

internal RAID controllers for SAS, SATA HDD or SSD drives

PY-SR4MA1 PRAID EP 3252-8i FH 2GB Cache RAID 0, 1, 10, 5, 50, 6, 60 1x PYBSR4MA1

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

supports SED (Self Encrypting Drives)

equires 1x FH 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 PYBFBM011 PY-FBM01

ower failure including cable with 31cm length

up to 1x FBU can be integrated per System

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/EP325x/CP2200: PY-CBS119

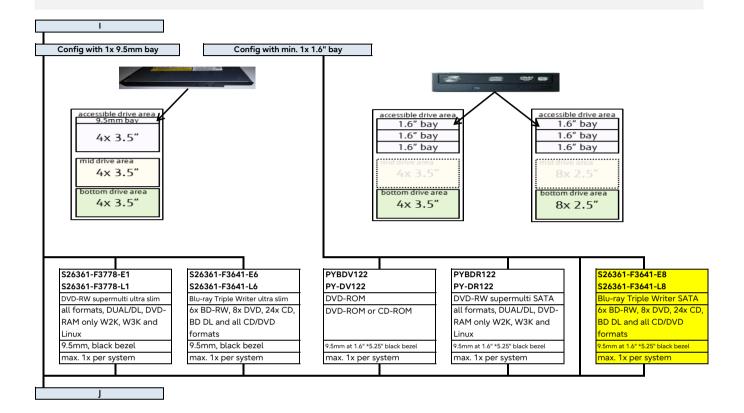
# Chapter 8 - ODD optical disk drives

With most configurations the TX1330 M6 offers  $3 \times 1.6$ " bay in the accissible drives area located at the top of the Tower Server (or at the right side of the Rack) f or 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 fr ont (e.g. "!! 1x 9.5mm ...")

The restriction for PYBDV122, PYBDR122, S26361-F3641-E8

- When PYBBA3TS3 ordered, PYBDV122, PYBDR122 and S26361-F3641-E8 cannot be ordered When PYBBA2LS6 ordered and LTO or RDX ordered, PYBDV122, PYBDR122 and S26361-F3641-E8 cannot be ordered



# Chapter 9 - backup drives

With most configurations the TX1330 M6 offers 3 x 1.6" bay in the accissible 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 ...")

AS HBA card for Internal LTC	) drives			
SAS HBA Controller	. 4 511001 40 076 170 1		IDVDCC 41440	DV 0041444
PSAS CP 2200-16i FH for LTO	requires 1x FH PCIe 4.0 x8 / for LTO drives	1x	PYBSC4MA3	PY-SC4MA1
LTO drives (Need to select or	ne of following LTO drives togheter with SAS HBA)			
	ape drives. Cleaning Cartridge and Cables are included			
TO 7 tape drive (w/o tape)	6.0TB, 300MB/s, SAS 2.0, 5.25 inch/HalfHeight	1x	S26361-F5606-E1	S26361-F5606-L1
		1x	S26361-F5789-E1	S26361-F5789-L1
TO 8 tape drive (w/o tape)	12.0TB, 300MB/s, SAS 2.0, 5.25 inch/HalfHeight	1.4		
TO 9 tape drive (w/o tape)	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x	PYBLT911	PY-LT911
TO 9 tape drive (w/o tape)  RDX drives  RDX drive is not including Carl	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x		
TO 9 tape drive (w/o tape)	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight		PYBLT911  S26361-F3750-E4	PY-LT911 S26361-F3750-L4
RDX drives RDX drives RDX drives RDX drive is not including Cart RDX Drive cage (w/o cartriges	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x		
RDX drives RDX drives RDX drives RDX drive is not including Cart RDX Drive cage (w/o cartriges	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x		
RDX drives RDX drives RDX drives RDX drive is not including Cart RDX Drive cage (w/o cartriges	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x		
RDX drives RDX drives RDX drive is not including Cart RDX Drive cage (w/o cartriges) RDX RDX Cartrridge	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x 1x 1x		S26361-F3750-L4
RDX drives RDX drives RDX drive is not including Cart RDX Drive cage (w/o cartriges) RDX	18.0TB, 300MB/s, SAS 3.0, 5.25 inch/HalfHeight	1x 1x 1x		\$26361-F3750-L4 \$26361-F3857-L500

## Chapter 10 - storage drives

SATA drives can be connected to the onboard Controller (max. 4x), or require a dedicated SAS / RAID Controller.

SAS drives require a dedicated SAS / RAID Controller. PCIe-SSDs require a dedicated RAID Controller.

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

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

Hard Disk Sector Format Information:

512n HDD: 512 byte sectors on the drive media.
512e (e=emulation) HDD: 4K physical sectors on the drive media with 512 byte logical configuration.

DWPD: Drive Writes Per Day over 5 years.

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

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

<u>Warranty:</u>
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 SATA 2.	5" Mixed Use (S	SFF) Enterprise w	ith hot plug/hot repla	ce tray						
based on Sam	based on <b>Samsung PM897a</b> 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 contr	oller with S	ED support for using as SE	D drives.				
max. 24x - dep	oending on base	unit & configurati	on							

SSD SATA 2.	SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray										
based on Sam	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	PY	BSS48NKQ	PY-SS48NKQ				
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PY	BSS96NKQ	PY-SS96NKQ				
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3	PY	BSS19NKQ	PY-SS19NKQ				
3.84TB	3.84TB 2.5" (SFF) SATA 6Gb/s Mixed Use 3 <b>PYBSS38NKQ PY-SS38NKQ</b>										
max. 24x - dei	pending on base	unit & configurati	on								

SSD SATA 2.	.5" Mixed Use (\$	SFF) Enterprise w	ith hot plug/hot repl	ace tray		
based on Micr	ron 5400 MAX dri	ives				
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-SS48NQ
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS96NQ	PY-SS96NQ
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5,0	PYBSS19NQ	PY-SS19NQ
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,5	PYBSS38NQ	PY-SS38NQ
max. 24x - der	pending on base	unit & configurati	on			

SSD SATA 2.	5" Read Intensi	ve (SFF) Enterpr	rise with hot plug/hot i	eplace tra	У					
based on Sam	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	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 - dep	max. 24x - depending on base unit & configuration									

ased on <b>Sam</b>	ısung PM893 driv	res				
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-SS24NM
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS48NMD	PY-SS48NM
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS96NMD	PY-SS96NM
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS19NMD	PY-SS19NM
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS38NMD	PY-SS38NM
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0	PYBSS76NMD	PY-SS76NM

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray based on Micron 5400 PRO drives Formfactor Interface Endurance order code E-part order code L-part Capacity PYBSS24NME 2.5" (SFF) PY-SS24NME 240GB SATA 6Gb/s 1.5 Read Intensive 480GB 2.5" (SFF) SATA 6Gb/s PYBSS48NMF PY-SS48NMF Read Intensive 1,5 960GB 2.5" (SFF) SATA 6Gb/s Read Intensive 1,5 PYBSS96NMF PY-SS96NMF 1.92TB 2.5" (SFF) SATA 6Gb/s Read Intensive 1,5 PYBSS19NMF PY-SS19NMF 2.5" (SFF) 3.84TB SATA 6Gb/s Read Intensive 1,2 PYBSS38NMF PY-SS38NMF 2.5" (SFF) SATA 6Gb/s Read Intensive 0,6 PYBSS76NMF PY-SS76NMF 7.68TB max. 24x - depending on base unit & configuration

## 2.5" (SFF) Hard drives

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. 24x - dep	ending on base	unit & configurati	on	·						

HDD SAS 2.5	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-p										
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5730-E118	S26361-F5730-L118					
2.4TB	2.4TB 10 000 SAS 12Gb/s 512e S26361-F5543-E124 S26361-F5543-L1									
max. 24x - dep	ending on base	unit & configurati	ion							

L1

L1

# 3.5" (LFF) SATA SSD

SSD SATA 3.	SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray										
based on Sam	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 CCDs con	he used as Non	CED drives but it	requires a BAID contr	allar with C	ED cumpart for using as SEI	drives					

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.	SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray									
based on Sam	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	PYBT	S48NK8	PY-TS48NK8			
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBT	S96NK8	PY-TS96NK8			
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBT	S19NK8	PY-TS19NK8			
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	PYBT	S38NK8	PY-TS38NK8			
may 12y - der	nending on hase	unit & configurati	on							

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray based on Micron 5400 MAX drives Interface DWPD Capacity Formfactor Endurance order code E-part order code L-part 480GB 2.5" (SFF) SATA 6Gb/s Mixed Use 5,0 PYBTS48NKA PY-TS48NKA 2.5" (SFF) 2.5" (SFF) 960GB SATA 6Gb/s Mixed Use 5,0 PYBTS96NKA PY-TS96NKA 1.92TB 5,0 PYBTS19NKA PY-TS19NKA SATA 6Gb/s Mixed Use 3.84TB 2.5" (SFF) SATA 6Gb/s Mixed Use 3,5 PYBTS38NKA PY-TS38NKA max. 12x - depending on base unit & configuration

	ung PM893a dri	ves					
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
nis SSDs can be	e used as Non-	SED drives, but it i	equires a RAID contr	oller with S	ED support for usir	ng as SED drives.	

ased on Sam	sung PM893 driv	es				
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-TS24NM
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS48NM9	PY-TS48NM
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS96NM9	PY-TS96NM
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS19NM9	PY-TS19NM
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS38NM9	PY-TS38NM
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1,0	PYBTS76NM9	PY-TS76NN

SSD SATA 3.	5" Read Intensi	ive (LFF) 2.5" SSI	D Enterprise with 3.5"	hot plug/ho	t replace tray	1
	on 5400 PRO dri	` '	2 2.110.p.100 mar 0.0	not progrine	Tropiado tray	
Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS24NMB	PY-TS24NMB
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS48NMC	PY-TS48NMC
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS96NMB	PY-TS96NMB
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,5	PYBTS19NMB	PY-TS19NMB
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,2	PYBTS38NMB	PY-TS38NMB
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,6	PYBTS76NMB	PY-TS76NMB
max. 12x - de	pending on base	unit & configurati	on			

#### 3.5" (LFF) Hard drives HDD SAS 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray Interface order code E-part order code L-part Sector Capacity SAS 12Gb/s PYBCH2T7G6 PY-CH2T7G6 2TB 512n 7 200 512n SAS 12Gb/s PYBCH4T7G6 PY-CH4T7G6 4TR 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 РҮВСН6Т7ВА РҮ-СН6Т7ВА 7 200 SAS 12Gb/s PYBCH8T7B9 PY-CH8T7B9 8TB 512e 512e PY-CHCT7B8 12TB 7 200 SAS 12Gb/s PYBCHCT7B8 14TB 7 200 SAS 12Gb/s 512e PYBCHET7B8 PY-CHET7B8 16TB 7 200 SAS 12Gb/s 512e PYBCHGT7B5 PY-CHGT7B5 18TB 7 200 SAS 12Gb/s 512e PYBCHJT7B2 PY-CHJT7B2 PYBCHLT7B PY-CHLT7B 20TB 7 200 SAS 12Gb/s 512e max. 12x - depending on base unit & configuration L2 HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray RPM Interface Sector order code E-part order code L-part Capacity SATA 6Gb/s 512n PYBBH2T7BA PY-BH2T7BA PYBBH4T7BA PY-BH4T7BA 4TB 7 200 SATA 6Gb/s 512n max. 12x - depending on base unit & configuration HDD SATA 3.5" 7.2K 512e (LFF) Enterprise Business Critical with hot plug/hot replace tray order code L-part order code E-part Capacity RPM Interface Sector 6TB 7 200 SATA 6Gb/s 512e PYBBH6T7EA PY-BH6T7EA 8TB 7 200 SATA 6Gb/s 512e PYBBH8T7E5 PY-BH8T7E5 max. 12x - depending on base unit & configuration ECO-SATA drive cannot be mixed with SAS HDD drives in same RAID Controller HDD SATA 3.5" 5.4K (LFF) ECO with hot plug/hot replace tray order code E-part order code L-part Capacity RPM Interface Sector 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 M.2 drive for VMware ESXi and for other OSs cannot be mixed M.2 SATA and M.2 PCIe drive cannot be mixed SSD SATA M.2 drive for booting, non hot-plug, for VMware ESXi based on Micron 5400 PRO drives Formfactor Interface Category order code E-part order code L-part PY-MF24NVD 240GB M.2 SATA 6Gb/s Boot PYBMF24NVD 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 CP300. SSD SATA M.2 drive for booting, non hot-plug based on Micron 5400 PRO drives DWPD Formfactor Interface order code E-part Capacity order code L-part Category SATA 6Gb/s 240GB M.2 1.5 Boot PYBMF24YN5 PY-MF24YN5 480GB SATA 6Gb/s 1,5 PYBMF48YN5 PY-MF48YN5 M.2 Boot 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 CP300. SSD PCIe M.2 drive for booting, non hot-plug based on Micron 7450 PRO drives DWPD Capacity Formfactor Interface Category order code E-part order code L-part PYBBS48PEA PY-BS48PEA 480GB M.2 2280 PCle4.0 x4 0,9 Boot 960GB M.2 2280 PCle4.0 x4 Boot PYBBS96PEA PY-BS96PEA 0.9 M.2 drive is designed for use as a boot drive with the Endurance Spec. above max. 1x per Server; connector located on Motherboard (please see folder "description"). 2x M.2 drives required; in case M.2 drives are used with PDUAL CP300. Dual M.2 PDUAL CP300 and M.2 drive on Motherboard cannot be mixed PDUAL CP300, dual M.2 for booting, non hot-plug order code E-part order code L-part Capacity Formfactor Interface Category PYBDMCP35 PY-DMCP35 n/a AIC PCle Boot FH PDUAL CP300 is a carrier of 2x SSD SATA or PCIe M.2 drives, which offers RAID1 with the 2x SSD M.2 drives. PDUAL CP300 is designed for use as a hardware-mirrored (RAID1) boot device for Hypervisor, which cannot be supported by M.2 via the onboard chipset Software RAI Supported RAID levels : RAID1 and 0 (optional), 2x same type of SSD M.2 drives need to be ordered separately. Supported M.2 drives: SSD SATA M.2 240GB/480GB/960GB or 240GB for VMware ESXi. (PY\*MF24YN5/PY\*MF48YN5/PY\*MF96YN or PY\*MF24NVD) or SSD PCIe M.2 480GB/960GB. (PY\*BS48PEA/PY\*BS96PEA) max. 1x per Server, requires 2x SSD M.2 drives RAID PRESET option Component order code E-part order code L-part pre-config. RAID1 Array for M.2 in PDUAL S26361-F5659-E13 This option allows pre-configuration of 2x M.2 modules to a RAID1 Array with PDUAL CP300 ex factory max. 1x per Server, requires 1x PDUAL CP300.

М

# **Chapter 11 - Communication / Ethernet Network Components**

Μ

PRIMERGY TX1330 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

2x

4x

4x

4x

Optional, 10Gb SFP+ optical transceiver module, select one per cage

Intel, 10Gx4port

Finisar, 10G SR SFP+

Intel, 1G/10G SR SFP+

Intel, 1G/10G LR SFP+

S26361-F3640-E4

S26361-F3986-E3

S26361-F3986-E5

S26361-F3986-E6

S26361-F3640-L504

S26361-F3986-L3

S26361-F3986-L5

S26361-F3986-L6

- 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

Broadcom 1GbE BEASE-T for PCIe				
PLAN CP BCM5719-4P 4X 1000BASE-T PCIe FH	2x	Broadcom, 1GTx4port	PYBLA284	PY-LA284
nax. 2x adapters per system		•	•	•
ntel 1GbE BEASE-T for PCIe				1
PLAN CP 2x1Gbit Cu Intel I350-T2 FH	2x	Intel, 1GTx2port	S26361-F4610-E2	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4 FH	2x	Intel, 1GTx4port	S26361-F4610-E4	S26361-F4610-L504
nax. 2x adapters per system (both I350-T2 and I3	50-T4 in	total)		
roadcom 10GbE BEASE-T for PCIe				
LAN EP P210TP 2X 10GBASE-T PCIe FH	2x	Broadcom, 10GTx2port	PYBLA3K2	PY-LA3K2
nax. 2x adapters per system	ZX	втоацсопт, тов тхарогс	FIBLASKZ	PT-LASKZ
lax. 2x adapters per system				
ntel 10GbE BEASE-T for PCIe				
PLAN EP X710-T2L 2x10GBASE-T FH	2x	Intel, 10GTx2port	PYBLA342	PY-LA342
LAN EP X710-T4L 4x10GBASE-T FH	2x	Intel, 10GTx4port	PYBLA344	PY-LA344
nax. 2x adapters per server system	L	· · · · · · · · · · · · · · · · · · ·	l e e e e e e e e e e e e e e e e e e e	
Broadcom 10GbE for PCIe				
ach cage consumes 1x optical SFP+ transceiver	per port.			
Dual rate 10G/1G support requires 10G/1G Dual F	Rate SFP+	Optical Transceiver Modules.		
All ports on this card need to install the same Part	ts Numbe	r of optical module.		
PLAN EP P210P 2x10Gb SFP PCIe FH	2x	Broadcom, 10Gx2port	PYBLA3I2	PY-LA3J2
LAN EP P2 10P 2X 10GB 3FP PCIE FR	2.x	Broadcom, rooxzport	PTBLASJZ	PT-LASJZ
Optional, 10Gb SFP+ optical transceiver mod	dule, sele	ct 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>	
nax. 2x adapters per system				
l ' '				
ntel 10GbE for PCIe				
ach cage consumes 1x optical SFP+ transceiver	per port.			
•	Rate SFP+	Optical Transceiver Modules.		
Dual rate 10G/1G support requires 10G/1G Dual F				
Dual rate 10G/1G support requires 10G/1G Dual I All ports on this card need to install the same Part PLAN EP X710-DA2 2x10Gb SFP+ FH			\$26361-F3640-E2	S26361-F3640-L502

PLAN EP X710-DA4 4x10Gb SFP+ FH

max. 1x per port
nax. 2x adapters per system

SFP+ Module Multi Mode Fiber 10GbE LC

SFP+ Transceiver 10G/1G Dual Rate SR

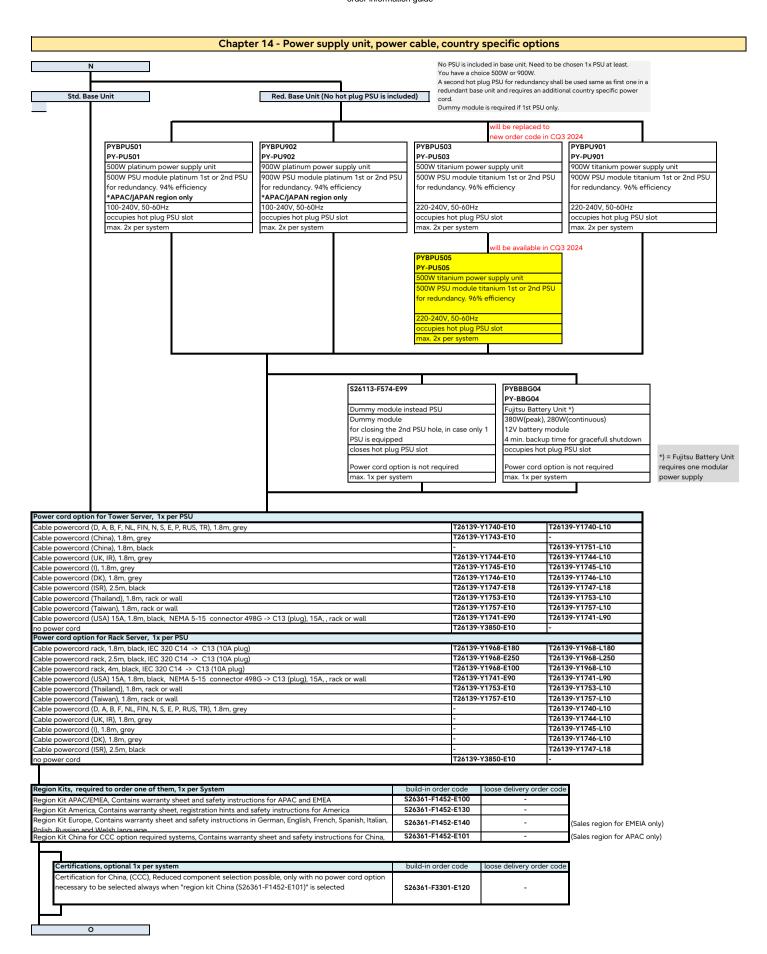
SFP+ Transceiver 10G/1G Dual Rate LR

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.  OG SFP BTO is not available for 25G cards, please select L parts.		
•		
OG SFP BTO is not available for 25G cards, please select L parts.		
LAN EP P225P 25Gb 2p SFP28 PCIe FH 2x Broadcom, 25Gx2port	PYBLA3H2	PY-LA3H2
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
max. 1x per port		
Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.		CO / O / 4 FOOD / 1 F
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		
lax. 2x adapters per system	_	
ntel 25GbE for PCIe		
ach cage consumes 1x optical SFP28 or SFP+ transceiver per port.		
ll ports on this card need to install the same Parts Number of optical module.		
OG SFP BTO is not available for 25G cards, please select L parts.		
LAN EP E810-XXVDA2 2x25Gb FH 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
max. 1x per port	1 12311 333	1 1 311 330
Optional, 10Gb SFP+ optical transceiver module, each 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
max. 1x per port		
nax. 2x adapters per system		
VIDIA 25GbE for PCIe		
ach cage consumes 1x optical SFP28 or SFP+ transceiver per port.		
ll ports on this card need to install the same Parts Number of optical module.		
0G SFP BTO is not available for 25G cards, please select L parts.		
00 011 010 15 Not available 101 200 caras, picase select 2 parts.		T
LAN EP MCX6-LX 25Gb 2p SFP28 PCle FH 2x NVIDIA, 25Gx2port	PYBLA4024	PY-LA4024
Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.	2.	
SFP28 25G SR E25GSFP28SRX LC 2x Intel, 25G SR SFP28	PYBSFPS56	PY-SFPS56
SFP28 Transceiver 25G SR MMA2P00-AS LC 2x NVIDIA, 25G SR SFP28	S26361-F4054-E701	S26361-F4054-L70
max. 1x per port		·
Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.		
SFP+ Transceiver 10G/1G Dual Rate SR 2x Intel, 1G/10G SR SFP+		S26361-F3986-L5
		S26361-F3986-L6
SFP+ Transceiver 10G/1G Dual Rate LR 2x Intel, 1G/10G LR SFP+ max. 1x per port		

M - FC

# Chapter 12 - Communication / Fibre Channel Components

ibre Channel PCIe Adapters				
32Gb Fibre Channel adapter with LC interface for 50	mopt	ical cables (OM5 or OM3)		
PFC EP LPe35002 2x 32Gb FH will be available in CQ2'24	2x	Broadcom, 32FCx2port	PYBFC422	PY-FC422
PFC EP LPe35000 1x 32Gb FH will be available in CQ2'24	2x	Broadcom, 32FCx1port	PYBFC421	PY-FC421
PFC EP QLE2772 2x 32Gb FH	2x	Marvell, 32FCx2port	PYBFC412	PY-FC412
PFC EP QLE2770 1x 32Gb FH	2x	Marvell, 32FCx1port	PYBFC411	PY-FC411
16Gb Fibre Channel adapter with LC interface for 50	m opt	ical cables (OM5 or OM3)		·
PFC EP LPe31002 2x 16Gb FH will be available in CQ2'24	2x	Broadcom, 16FCx2port	S26361-F5596-E2	S26361-F5596-L50
PFC EP LPe31000 1x 16Gb FH will be available in CQ2'24	2x	Broadcom, 16FCx1port	S26361-F5596-E1	S26361-F5596-L50
PFC EP QLE2692 2x 16Gb FH	2x	Marvell, 16FCx2port	S26361-F5580-E2	S26361-F5580-L50
PFC EP QLE2690 1x 16Gb FH	2x	Marvell, 16FCx1port	S26361-F5580-E1	S26361-F5580-L50
max. 2 adapters per system (mixed configurations are	suppoi	ted)	1	· L
max. 2 adapters per system (mixed configurations are	suppoi	ted)	•	



#### Chapter 15 - Accessories 0 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: ntry version FUJITSU Keyboard KB521 USB (grey) Country version US/ int 105 keys (UK keyboard + US int. Layout) S26381-K521-L102 APAC only 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 Р

# Chapter 16 - Others (Energy Star restriction)

# 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:

#### Not allowed:

- CPU: Pentium Gold G7400 (PYBCP67C1)
- CPU: Xeon E-2414 (PYBCP67E7)
- Any PCIe cards (RAID, LAN, ...)

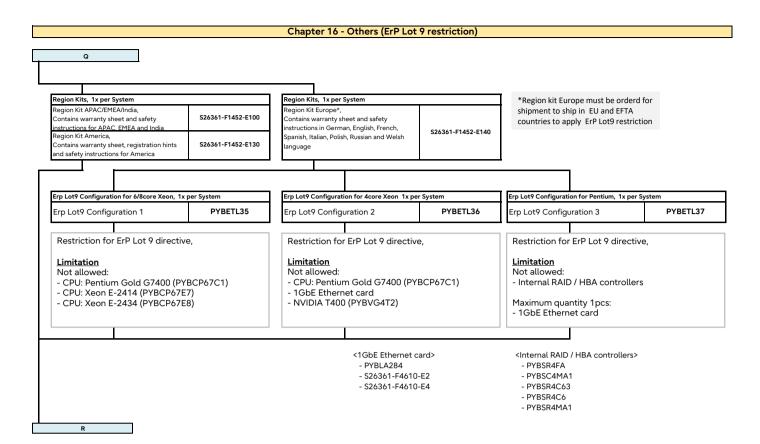
Maximum sotrage quantity 4pcs [(HDD/SSD 3,5" LFF or HDD/SSD 2,5" SFF) + SSD M.2]

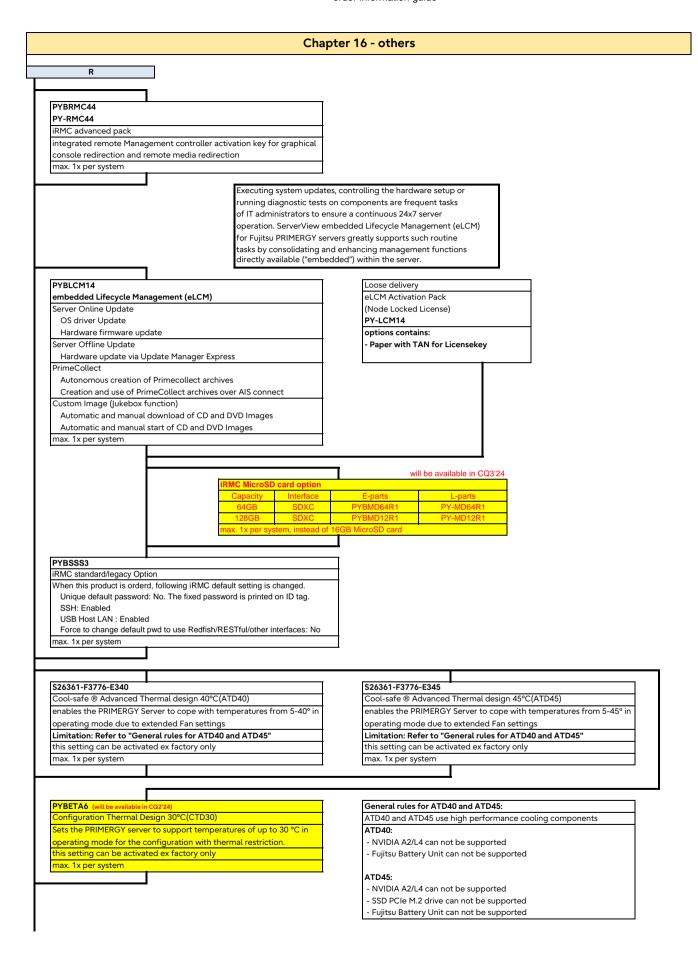
ENERGY STAR-configurationen will be labeld: non ENERGY STAR-configurationen will be labeld:

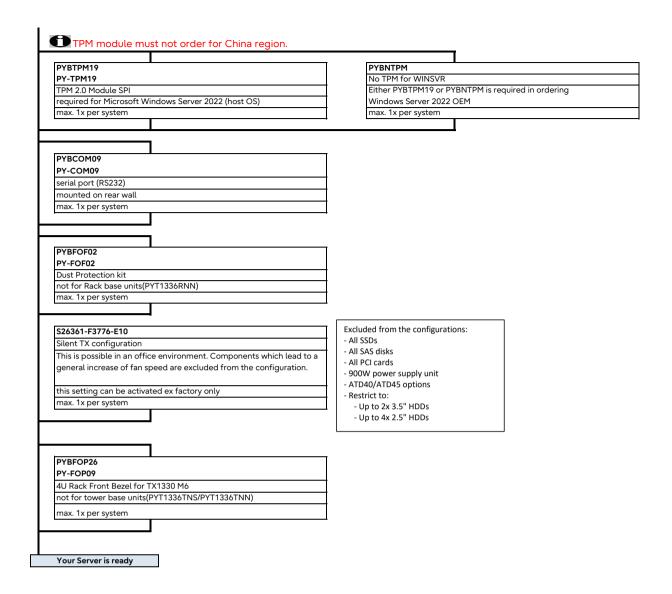
PRIMERGY TX1330 M6 E-Star Fam1

PRIMERGY TX1330 M6

Q







Date of change	Configurator revision	Folder / order code / description	What has been changed / comment	Name
22.04.2024	1.03	ODD	added Blu-ray Triple Writer SATA for 1.6" bay	H. Okabe
10.04.2024	1.02	Cover	updated the address of "For further information see:"	H. Okabe
25.03.2024	1.01	others	revised the description about iRMC MicroSD card options for eLCM	Y. Sugiyama
22.03.2024	1,00		1st release	H. Okabe