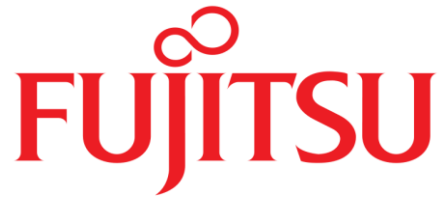


PRIMERGY TX1330 M4  
Tower or 4U Rack server



Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator,
	Description	System Description for easier understanding
1	Base	describes base unit of TX1330 M4
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_FC_IB	LAN Components
12		Fibre Channel Controller (n.a. for TX1330 M4)
13		Infiniband Controller (n.a. for TX1330 M4)
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.

## Chapter xx - description of chapter

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

<b>S26361-F4610-E2</b>
<b>S26361-F4610-L3</b>
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

### For further information see:

Link to datasheet:

[http:// xxx](http://xxx)

[http://ts.fujitsu.com/products/standard\\_servers/index.html](http://ts.fujitsu.com/products/standard_servers/index.html)

(internet)

[https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy\\_config/Pages/default.aspx](https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/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



The PRIMERGY TX1330 M4 Server offers 3 drive mounting areas:

**Start**

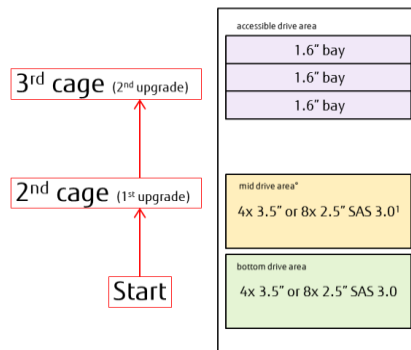
- accessible drive area (purple color code) with
  - 3x 1.6" bay for optical drives or LTO/RDX drives (standard)
  - or optional 3<sup>rd</sup> cage for up to 4x 3.5" SAS 3.0 LFF HDD (then only a 9.5mm ODD can be configured)
  - or optional 3<sup>rd</sup> cage for up to 8x 2.5" SAS 3.0 SFF HDD or SSD (then 1x 1.6" ODD / backup drive combination can be configured)
  - or optional 3<sup>rd</sup> 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

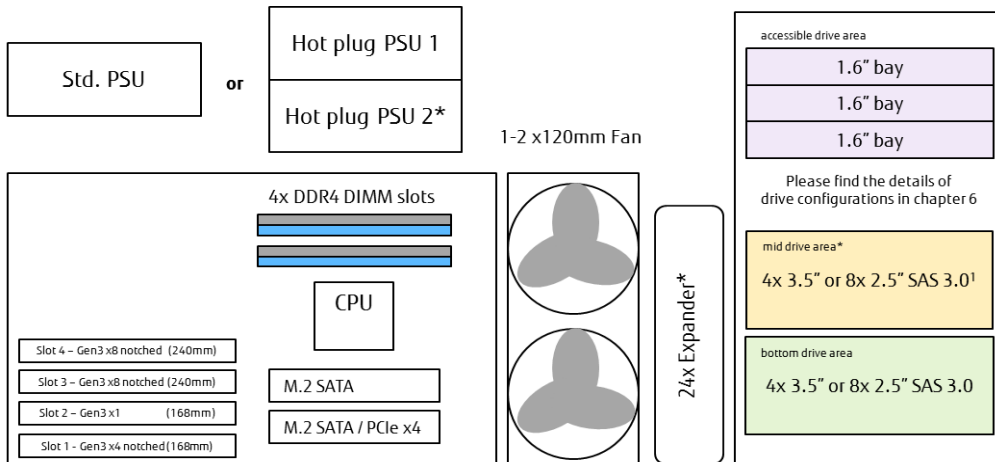
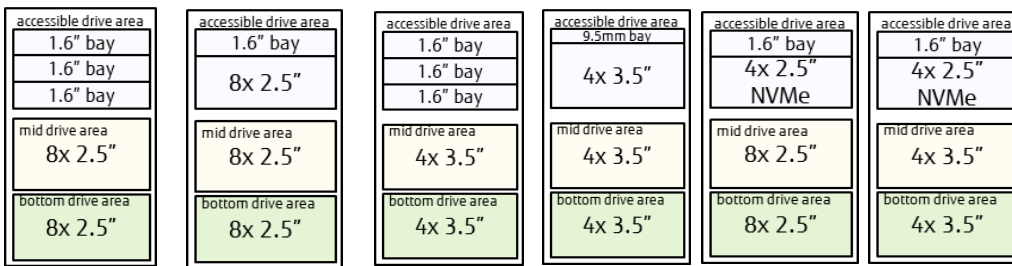
- space for 2<sup>nd</sup> cage with up to 4x 3.5" SAS 3.0 LFF HDD
- or space for 2<sup>nd</sup> cage with up to 8x 2.5" SAS 3.0 SFF HDD or SSD

bottom drive area (green color code) - mandatory with

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



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



\* = option  
<sup>1</sup> = with the exception of NVMe SSDs either 2.5" or 3.5" drives are allowed

**Chapter 1 - base unit**

**Start**

**Power supply units & cooling**

For the PRIMERGY TX 1330 M4 you can choose between a standard power supply unit (PSU) with 300W or an hot plug PSU with 450W (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 D3673 made in Germany based on Chipset Intel® C246  
> cables for connection to the modular or onboard controllers included  
> Celeron, Pentium, Core i3 or **Xeon E3-1200 v6** series CPUs

**Slots:**

- Slot 4 PCIe-Gen3 x8 (notched) - supports modular RAID functions
- Slot 3 PCIe-Gen3 x8 (notched) - preferred slot for Graphics Card option
- Slot 2 PCIe-Gen3 x4 (notched)
- Slot 1 PCIe-Gen3 x1 - may be used for legacy PCI option

**System RAM** DDR4-2666 MHz

4 memory slots for max. 64GB DDR4 RAM.

**LAN**

2x Intel i210 Gigabit Ethernet

**Software**

\* ServerView Suite Software incl. ServerStart, ServerBooks, Management Software and Updates

**Connectivity**

Interfaces at rear side

- 1x RS-232-C (serial, 9 pin)
- 2 LAN RJ45 (1 Gbit)
- 1 service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 2x USB 3.1 Gen2 & 4x USB 2.0 no USB wakeup

Interfaces at front

2x USB 3.1 Gen1 no USB wakeup

Interfaces internal

- 2x internal USB 3.1 Gen1 connectors for backup devices
- 2x M.2 (80mm and 110mm)modules: 1x SATA; 1x NVMe/SATA
- +PCIe x4
- 1x Mini SAS/SATA (4x SATA 6G)

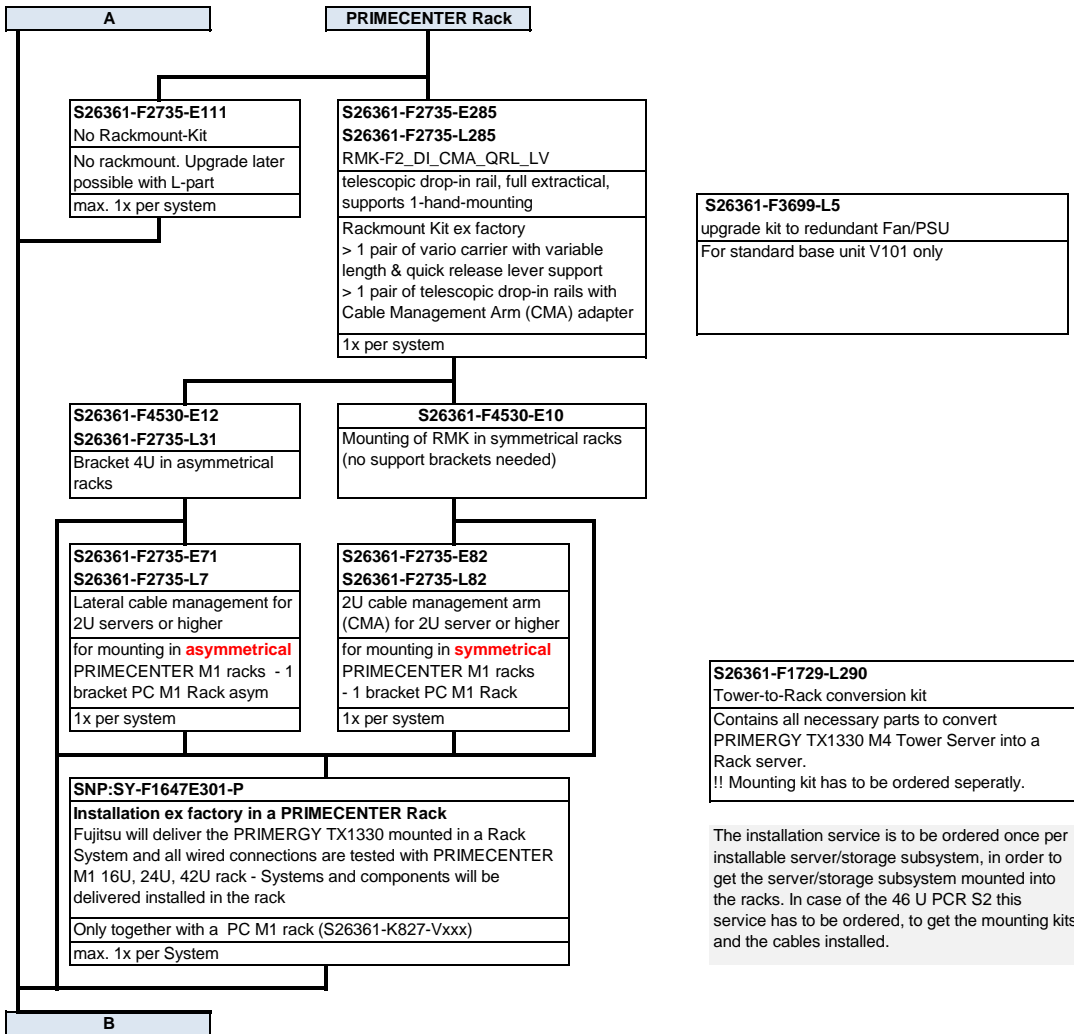
Floorstand
<b>S26361-K1639-V101</b>
TX1330 M4 Base Unit standard
<b>S26361-K1639-V201</b>
TX1330 M4 Base Unit redundant Fan and hot plug PSU

Rack
to create an Rack Base Unit w/ standard PSU you can use the Tower-to-Rack conversion kit (S26361-F1729-L290)
<b>S26361-K1639-V601</b>
TX1330 M4 Base Unit redundant Fan and hot plug PSU

A

PRIMECENTER Rack

**Chapter 2 - Rack architecture**



**Chapter 3 - Options for Base Unit**

**B**

**For later upgrade to redundancy the following PSU-kits are available:**

<b>1 power supply module 450W hot plug:</b>	<b>S26113-F575-L13</b>
Supplementary module	
Attention: There is no power cable included!	

<b>Std to Redundant Fan/PSU Upgrade Kit</b>	<b>S26361-F3699-L5</b>
consisting of a redundant Fans w/ Airduct, PSU cage and backplane	
Does not contain any PSU module	

**C**

**Chapter 3 - CPU**

**B**

One of following CPU's has to be selected for an orderable basic unit  
 CPUs with order code S26361-F4029-E3\*\* do not support RHEL 7.5 and SLES15 GA  
 95W CPU requires hot plug PSU

<b>Pentium Coffee Lake</b>	
64-bit Intel Pentium processor supporting DDR4 @ 2.400MHz	
Pentium Gold G5400 2C/4T 3.7GHz 4MB 2400MHz 54W	S26361-F4029-E205
Pentium Gold G5420 2C/4T 3.8GHz 4MB 2400MHz 54W	S26361-F4029-E305
<b>Core i3 (Coffee Lake)</b>	
64-bit Intel Core i3 processor supporting DDR4 @ 2.400MHz	
Core i3-8100 4C/4T 3.6GHz 6MB 2400MHz 65W	S26361-F4029-E208
Core i3-9100 4C/4T 3.6GHz 6MB 2400MHz Turbo 65W	S26361-F4029-E309
<b>Xeon E3-12xx v6 (Kaby Lake-E)</b>	
64-bit Intel Xeon processor supporting DDR4 @ 2.666MHz	
Xeon E-2124 4C/4T 3.3GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E224
Xeon E-2124G 4C/4T 3.4GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E225
Xeon E-2126G 6C/12T 3.3GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E226
Xeon E-2134 4C/8T 3.5GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E234
Xeon E-2136 6C/6T 3.3GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E236
Xeon E-2144G 4C/8T 3.6GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E244
Xeon E-2146G 6C/12T 3.5GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E246
Xeon E-2174G 4C/8T 3.8GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E274
Xeon E-2176G 6C/12T 3.7GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E276
Xeon E-2186G 6C/12T 3.8GHz 12MB 2666MHz Turbo 95W	S26361-F4029-E286
<b>Xeon E3-22xx v6 (Kaby Lake-E Refresh)</b>	
64-bit Intel Xeon processor supporting DDR4 @ 2.666MHz	
Xeon E-2224 4C/4T 3.4GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E324
Xeon E-2224G 4C/4T 3.5GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E325
Xeon E-2226G 6C/6T 3.4GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E326
Xeon E-2234 4C/8T 3.6GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E334
Xeon E-2236 6C/12T 3.4GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E336
Xeon E-2244G 4C/8T 3.8GHz 8MB 2666MHz Turbo 71W	S26361-F4029-E344
Xeon E-2246G 6C/12T 3.6GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E346
Xeon E-2274G 4C/8T 4.0GHz 8MB 2666MHz Turbo 83W	S26361-F4029-E374
Xeon E-2276G 6C/12T 3.8GHz 12MB 2666MHz Turbo 80W	S26361-F4029-E376
Xeon E-2278G 8C/16T 3.4GHz 16MB 2666MHz Turbo 80W	S26361-F4029-E378
Xeon E-2286G 6C/12T 4.0GHz 12MB 2666MHz Turbo 95W	S26361-F4029-E386
Xeon E-2288G 8C/16T 3.7GHz 16MB 2666MHz Turbo 95W	S26361-F4029-E388

**C**



**Chapter 4 - DDR4 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.

max. 128GB unbuffered DDR4 RAM for UDIMMs with 32GB moduls @ 2.666 MT/s

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

Unbuffered Memory (UDIMM) with ECC support			
4GB (1x4GB) 1Rx8 DDR4-2666 U ECC	Single rank	S26361-F3909-E714	S26361-F3909-L714
8GB (1x8GB) 1Rx8 DDR4-2666 U ECC	Single rank	S26361-F3909-E715	S26361-F3909-L715
16GB (1x16GB) 2Rx8 DDR4-2666 U ECC	Dual rank	S26361-F3909-E716	S26361-F3909-L716
32GB (1x32GB) 2Rx8 DDR4-2666 U ECC	Dual rank	S26361-F3909-E717	S26361-F3909-L717

On special release request only

**E**

**Chapter 5 - Graphics cards**

E

<b>S26361-F4066-E400</b>
<b>S26361-F4066-L400</b>
PGRA CP NVIDIA Quadro P400
NVIDIA Quadro
2GB PCIe 3.0 x16
Connectors: 3x Mini-DP
no cable kits included
cable must be ordered seperately
Triple head + professional 2-D + 3-D supported for Windows OS
native driver support for Linux OS
full height bracket
max. 1x per system

The high end optional NVIDIA Quadro graphic card offers triple head operation and fully 3D video support.  
**Remote Video direction via iRMC must be disabled.**  
 Only one card per server is allowed.

<b>S26361-F4066-E11</b>
<b>S26361-F4066-L11</b>
MiniDP-DP ADAPTER
max. 3x per card

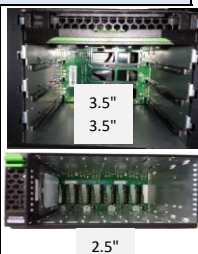
<b>S26361-F4066-E12</b>
<b>S26361-F4066-L12</b>
DP-VGA ADAPTER
max. 3x per card

<b>S26361-F4066-E13</b>
<b>S26361-F4066-L13</b>
DP-DVI ADAPTER
max. 3x per card

F

**Chapter 6 - HD drive cage**

**F**



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

accessible drive area 1.6" bay 1.6" bay 1.6" bay mid drive area 4x 3.5" bottom drive area 4x 3.5"	<b>1) S26361-F3899-E304</b> 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	
	<b>2a) recommended RAID configuration</b>	
		<b>2b) possible RAID controllers</b> S26361-F5243-E11 PRAID EP400i - 1GB Cache S26361-F5243-E12 PRAID EP420i - 2GB Cache S26361-F4042-E4 PRAID EP540i - 4GB Cache S26361-F4042-E8 PRAID EP580i - 8GB Cache
	1x S26361-F3842-E1 PRAID CP400i	
<b>3) accessible drive area</b> 3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available		
<b>3) S26361-F3899-E21</b> 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		
<b>4) S26361-F3899-L1</b> 4x 3.5" HDD kit for mid drive area		
<b>4) S26361-F3899-L2</b> 4x 3.5" HDD kit incl. Expander, SAS 3.0 BPL & cables for accessible drive area*		
<b>4) S26361-F3899-L21</b> 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		
<b>4) Restriction</b> upgrade of mid drive area and 4x 2.5" NVMe kit in accessible drive area requires hot plug PSU (V201, V601)		
<b>5) Remark</b> up to 4x SATA HDD can be operated using the onboard RAID Controller		
*) S26391-F3899-L1 is mandatory		**) EP540i or EP580i RAID controller required

accessible drive area 1.6" bay 1.6" bay 1.6" bay mid drive area 4x 3.5" bottom drive area 4x 3.5"	<b>1) S26361-F3899-E308</b> 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	
	<b>1) Restriction</b> redundant Base Unit (V201, V601) required	
<b>2a) recommended RAID configuration</b>		<b>2b) possible RAID controllers</b> S26361-F5243-E11 PRAID EP400i - 1GB Cache S26361-F5243-E12 PRAID EP420i - 2GB Cache S26361-F4042-E4 PRAID EP540i - 4GB Cache S26361-F4042-E8 PRAID EP580i - 8GB Cache
	1x S26361-F3842-E1 PRAID CP400i	
<b>3) accessible drive area</b> 3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available		
<b>3) S26361-F3899-E21</b> 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		
<b>4) S26361-F3899-L2</b> 4x 3.5" HDD kit incl. Expander, SAS 3.0 BPL & cables for accessible drive area		
<b>4) S26361-F3899-L21</b> 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**		
		**) EP540i or EP580i RAID controller required

accessible drive area 9.5mm bay 4x 3.5" mid drive area 4x 3.5" bottom drive area 4x 3.5"	<b>1) S26361-F3899-E312</b> 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	
	<b>1) Restriction</b> redundant Base Unit (V201, V601) required	
<b>2a) recommended RAID configuration</b>		<b>2b) possible RAID controllers</b> S26361-F5243-E11 PRAID EP400i - 1GB Cache S26361-F5243-E12 PRAID EP420i - 2GB Cache S26361-F4042-E4 PRAID EP540i - 4GB Cache S26361-F4042-E8 PRAID EP580i - 8GB Cache
	1x S26361-F3842-E2 PSAS CP400i for MS spaces	
<b>3) accessible drive area</b> !! 1x 9.5mm bay for ultra slim DVD or Blu Ray available		

<table border="1"> <tr><td>accessible drive area</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>mid drive area</td></tr> <tr><td>8x 2.5"</td></tr> <tr><td>bottom drive area</td></tr> <tr><td>8x 2.5"</td></tr> </table>	accessible drive area	1.6" bay	1.6" bay	1.6" bay	mid drive area	8x 2.5"	bottom drive area	8x 2.5"	<b>1) S26361-F3899-E208</b> 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			
	accessible drive area											
	1.6" bay											
	1.6" bay											
	1.6" bay											
mid drive area												
8x 2.5"												
bottom drive area												
8x 2.5"												
<table border="1"> <tr> <th>2a) recommended RAID configuration</th> <th>2b) possible RAID controllers</th> </tr> <tr> <td>1x S26361-F3842-E1</td> <td>PRAID CP400i</td> </tr> <tr> <td></td> <td>S26361-F5243-E11</td> </tr> <tr> <td></td> <td>S26361-F5243-E12</td> </tr> <tr> <td></td> <td>S26361-F4042-E4</td> </tr> <tr> <td></td> <td>S26361-F4042-E8</td> </tr> </table>	2a) recommended RAID configuration	2b) possible RAID controllers	1x S26361-F3842-E1	PRAID CP400i		S26361-F5243-E11		S26361-F5243-E12		S26361-F4042-E4		S26361-F4042-E8
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	S26361-F5243-E12											
	S26361-F4042-E4											
	S26361-F4042-E8											
<b>3) accessible drive area</b> <b>3) S26361-F3899-E21</b>	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**											
<b>4) S26361-F3899-L11</b> <b>4) S26361-F3899-L12</b> <b>4) S26361-F3899-L21</b>	8x 2.5" HDD kit for mid drive area incl. Expander, SAS 3.0 BPL & cables 8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area* 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**											
<b>4) Restriction</b> <b>5) Remark</b>	upgrade of mid drive area and 4x 2.5" NVMe kit in accessible drive area requires hot plug PSU (V201, V601) up to 4x SATA HDD can be operated using the onboard RAID Controller											

\*) S26391-F3899-L11 is mandatory      \*\*) EP540i or EP580i NVMe RAID controller required  
 \*\*) EP540i NVMe = S26361-F4042-E24, EP580i NVMe = S26361-F4042-E28

<table border="1"> <tr><td>accessible drive area</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>mid drive area</td></tr> <tr><td>8x 2.5"</td></tr> <tr><td>bottom drive area</td></tr> <tr><td>8x 2.5"</td></tr> </table>	accessible drive area	1.6" bay	1.6" bay	1.6" bay	mid drive area	8x 2.5"	bottom drive area	8x 2.5"	<b>1) S26361-F3899-E216</b> 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			
	accessible drive area											
	1.6" bay											
	1.6" bay											
	1.6" bay											
mid drive area												
8x 2.5"												
bottom drive area												
8x 2.5"												
<b>1) Restriction</b>	redundant Base Unit (V201, V601) required											
<table border="1"> <tr> <th>2a) recommended RAID configuration</th> <th>2b) possible RAID controllers</th> </tr> <tr> <td>1x S26361-F3842-E2</td> <td>PSAS CP400i for MS spaces</td> </tr> <tr> <td></td> <td>S26361-F5243-E11</td> </tr> <tr> <td></td> <td>S26361-F5243-E12</td> </tr> <tr> <td></td> <td>S26361-F4042-E4</td> </tr> <tr> <td></td> <td>S26361-F4042-E8</td> </tr> </table>	2a) recommended RAID configuration	2b) possible RAID controllers	1x S26361-F3842-E2	PSAS CP400i for MS spaces		S26361-F5243-E11		S26361-F5243-E12		S26361-F4042-E4		S26361-F4042-E8
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1x S26361-F3842-E2	PSAS CP400i for MS spaces											
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	S26361-F5243-E12											
	S26361-F4042-E4											
	S26361-F4042-E8											
<b>3) accessible drive area</b> <b>3) S26361-F3899-E21</b>	3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**											
<b>4) S26361-F3899-L12</b> <b>4) S26361-F3899-L21</b>	8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area**											

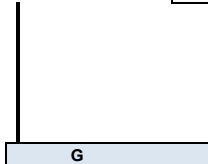
\*\*) EP540i or EP580i NVMe RAID controller required  
 \*\*) EP540i NVMe = S26361-F4042-E24, EP580i NVMe = S26361-F4042-E28

<table border="1"> <tr><td>accessible drive area</td></tr> <tr><td>1.6" bay</td></tr> <tr><td>8x 2.5"</td></tr> <tr><td>mid drive area</td></tr> <tr><td>8x 2.5"</td></tr> <tr><td>bottom drive area</td></tr> <tr><td>8x 2.5"</td></tr> </table>	accessible drive area	1.6" bay	8x 2.5"	mid drive area	8x 2.5"	bottom drive area	8x 2.5"	<b>1) S26361-F3899-E224</b> 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. ! HDD cages are mounted directly to the housing - higher noise levels may occur				
	accessible drive area											
	1.6" bay											
	8x 2.5"											
	mid drive area											
8x 2.5"												
bottom drive area												
8x 2.5"												
<b>1) Restriction</b>	redundant Base Unit (V201, V601) required											
<table border="1"> <tr> <th>2a) recommended RAID configuration</th> <th>2b) possible RAID controllers</th> </tr> <tr> <td>1x S26361-F3842-E2</td> <td>PSAS CP400i for MS spaces</td> </tr> <tr> <td></td> <td>S26361-F5243-E11</td> </tr> <tr> <td></td> <td>S26361-F5243-E12</td> </tr> <tr> <td></td> <td>S26361-F4042-E4</td> </tr> <tr> <td></td> <td>S26361-F4042-E8</td> </tr> </table>	2a) recommended RAID configuration	2b) possible RAID controllers	1x S26361-F3842-E2	PSAS CP400i for MS spaces		S26361-F5243-E11		S26361-F5243-E12		S26361-F4042-E4		S26361-F4042-E8
2a) recommended RAID configuration	2b) possible RAID controllers											
1x S26361-F3842-E2	PSAS CP400i for MS spaces											
	S26361-F5243-E11											
	S26361-F5243-E12											
	S26361-F4042-E4											
	S26361-F4042-E8											
<b>3) accessible drive area</b>	1x 1.6" bays for DVD, Blu Ray, LTO or RDX drives available											
<b>no upgrades possible</b>												

You did not find your preferred drive cage configuration in this comprehensive list of popular bundles?

--> Please contact our made4you team (mailto:customer.projects@ts.fujitsu.com) for more customer specific solutions.

E.g. 2nd RAID Controller, boot from onboard SATA, ...



**Chapter 7 - SAS / RAID Controller**

H

onboard SATA controller with SW-RAID

onboard controller for SATA HDD or SSD drives

4 ports 3, 6Gb/s SATA HDD/	based on Intel chipset	No Cache	SW-RAID 0, 1	1x	onboard
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internal HBA and RAID controller, no 2nd Level cache

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

<b>PRAID CP400i RAID Contr.</b>	No Cache	RAID 0, 1, 1E, 10, 5, 50	1x	S26361-F3842-E1	S26361-F3842-L501
<b>PSAS CP400i HBA SAS Contr.</b>	No Cache	HBA + RAID 0, 1	1x	S26361-F3842-E2	S26361-F3842-L502

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 SAS3008

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

<b>PRAID CP500i RAID Contr.</b>	No Cache	RAID 0, 1, 10, 5, 50	1x	S26361-F5791-E51	S26361-F5791-L551
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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

<b>PSAS CP503i HBA SAS Contr.</b>	No Cache	HBA, no RAID	1x	S26361-F5792-E53	S26361-F5792-L553
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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 drive RAID / HBA controllers for SAS, SATA HDD or SSD drives

<b>PSAS CP 2100-8i FH for MS HCI</b>	No Cache	HBA + RAID 1	1x	S26361-F5888-E1	-
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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; released for Azure Stack HCI / Storage Spaces Direct(Windows) in V201 / V901 in case of V201, TPM (S26361-F3552-E100) must be ordered together

Attention: only applicable in -V201 / V901

<b>PSAS CP 2100-8i FH</b>	No Cache	HBA + RAID 0, 1, 10, 5	1x	S26361-F5888-E2	S26361-F5888-L502
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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

PSAS CP503i and PSAS CP400i for LTO cannot be mixed

PSAS CP503i for LTO and PSAS CP400i cannot be mixed

PRAID CP400i / EP400i / EP420i / EP420i for SafeStore / PRAID CP500i and PRAID EP540i NVMe / EP580i NVMe cannot be mixed

PSAS CP 2100-8i and PSAS CP400i for LTO / PSAS CP503i for LTO / PRAID EP540i NVMe / EP580i NVMe cannot be mixed

internal RAID controller with 2nd Level cache 1GB, 2GB

internal drive RAID / SAS, SATA controllers with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options

<b>PRAID EP400i RAID Contr.</b>	1GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F5243-E11	S26361-F5243-L11
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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 SAS3108

optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW

RAID Advanced SW Option CacheCade @Broadcom: SSD-cache-based HDD acceleration	1x	S26361-F5243-E670	S26361-F5243-L670
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optional Transportable Flash module (TFM) and Flash Backup Unit (FBU), both components required

<b>TFM module for 1GB Cache</b>   NV-RAM & FBU control logic	1x	S26361-F5243-E100	S26361-F5243-L100
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<b>FBU Option for PRAID EP4xx:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length	1x	S26361-F5243-E155	S26361-F5243-L110
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<b>PRAID EP420i RAID Contr.</b>	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F5243-E12	S26361-F5243-L12
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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 SAS3108

optional Licence Activation Key, a free of charge test licence is available at PRIMERGY-PM, FastPath is included in Controller FW

RAID Advanced SW Option CacheCade @Broadcom: SSD-cache-based HDD acceleration	1x	S26361-F5243-E670	S26361-F5243-L670
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optional TFM module and Flash Backup Unit (FBU), both components required

<b>TFM module for 2GB Cache</b>   NV-RAM & FBU control logic	1x	S26361-F5243-E200	S26361-F5243-L200
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<b>FBU Option for PRAID EP4xx:</b> Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length	1x	S26361-F5243-E155	S26361-F5243-L110
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internal NVMe, SAS, SATA RAID controller with 2nd Level cache 2GB, 4GB, 8GB

internal drive RAID / SAS controllers for E91 and SAS, SATA HDD or SSD drives					
<b>PRAID EP520i RAID Contr.</b>	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 (NVMe support for EP520i on special release for this controller in this system) includes Fastpath and SafeStore Advanced SW-Licence requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
<b>PRAID EP540i RAID Contr. FH</b>	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E4	S26361-F4042-L504
<b>PRAID EP580i RAID Contr. FH</b>	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E8	S26361-F4042-L508
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-E28 and E28 are identical products. The 2nd Order number was only introduced for explicit ordering and cabling.)					
<b>PRAID EP540i NVMe FH</b>	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	S26361-F4042-E24	S26361-F4042-L504
<b>PRAID EP580i NVMe FH</b>	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 x 4 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.)					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
<b>FBU Option for PRAID EP5xx:</b>	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

**maximum number of internal RAID + HBA (See also pictures on folder base / HD cage):**  
 standard config: max. 1  
 for NVMe support only: max. 2x controller: one PRAID EP540/80i NVMe for 4x NVMe, onboard or second RAID, HBA controller for SAS/SATA

up to **1x FBU** can be integrated per System  
 for PRAID EP540i / 80i and NVMe drives, no FBU is allowed (performance)  
 for PRAID EP540i / 80i and NVMe drives, RHEL 7.5 is not supported

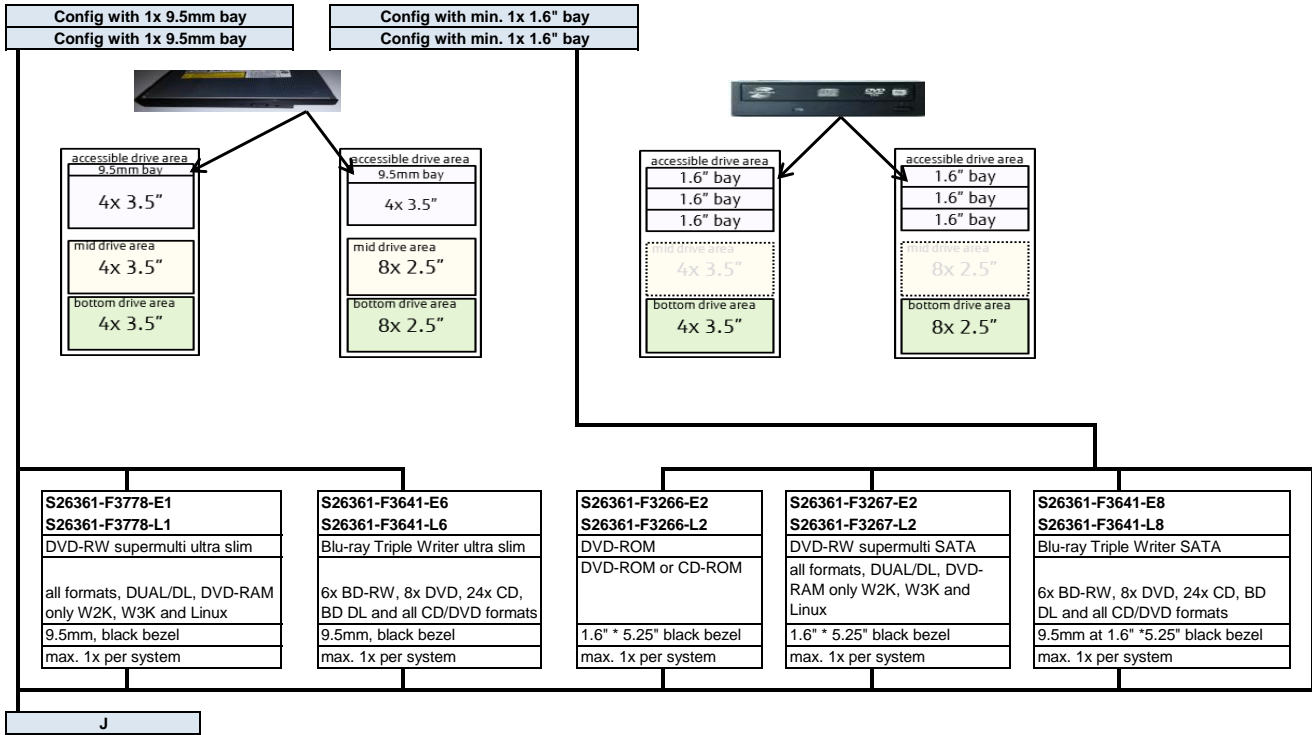
**Expander configurations:** Use PRAID EPxxx for optimal performance,  
 PRAID CP400i / CP500i is not released for expander configurations

**Advanced SW options:** simultaneous operation of SafeStore + FastPath is supported

I

**Chapter 8 - ODD optical disk drives**

With most configurations the TX1330 M3 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 9.5m m ...")



**Chapter 9 - backup drives**

With most configurations the TX1330 M3 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. "!! 1x9.5mm ...")

**J**  
Config with min. 1x free 1.6" bay

<b>SAS HBA card for Internal LTO drives (for Base Unit -Vxxx, -Vyyy)</b>				
8 ports 3, 6 & 12Gb/s SAS HBA Controller				
PSAS CP400i SAS Contr.	based on LSI SAS3008 / for LTO drives.	1x	S26361-F3842-E20	S26361-F3842-L502
PSAS CP503i SAS Contr.	based on LSI SAS3408 / for LTO drives.	1x	S26361-F5792-E51	S26361-F5792-L553

<b>LTO drives (Need to select one of following LTO drives together with SAS HBA)</b>				
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

<b>RDX drives (for Base Unit -Vxxx, -Vyyy)</b>				
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

<b>RDX</b>				
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

**K**



**Chapter 10 - storage drives**

**K**

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>  
 DDPD: 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 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

**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		S26361-F5938-E480	S26361-F5938-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5938-E960	S26361-F5938-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5938-E192	S26361-F5938-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5938-E384	S26361-F5938-L384

max. 24x - depending on base unit & configuration

**SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray**  
 based on **Samsung SM883 or SM863a** drives \* 3.84TB is SM883 only

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5675-E240	S26361-F5675-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5675-E480	S26361-F5675-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5588-E960	S26361-F5588-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3		S26361-F5588-E192	S26361-F5588-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3,6		S26361-F5588-E384	S26361-F5588-L384

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

**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		S26361-F5946-E240	S26361-F5946-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5946-E480	S26361-F5946-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5946-E960	S26361-F5946-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5946-E192	S26361-F5946-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5946-E384	S26361-F5946-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5946-E768	S26361-F5946-L768

max. 24x - depending on base unit & configuration

EMEA only

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Samsung PM883 drives							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E240	S26361-F5802-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E480	S26361-F5802-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E960	S26361-F5802-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E192	S26361-F5802-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E384	S26361-F5802-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,7		S26361-F5802-E768	S26361-F5802-L768

max. 24x - depending on base unit & configuration

as long as stock available

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray							
based on Micron 5100 PRO or 5200 ECO * 240GB is 5100, others are 5200							
Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,4		S26361-F5701-E240	S26361-F5701-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,9		S26361-F5701-E480	S26361-F5701-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,9		S26361-F5701-E960	S26361-F5701-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,9		S26361-F5701-E192	S26361-F5701-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1,0		S26361-F5701-E384	S26361-F5701-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0,5		S26361-F5701-E768	S26361-F5701-L768

max. 24x - depending on base unit & configuration

2.5" (SFF) Hard drives

HDD SAS 2.5" 15K (SFF) Enterprise Mission Critical with hot plug/hot replace tray							
Capacity	RPM	Interface	Sector			order code E-part	order code L-part
300GB	15 000	SAS 12Gb/s	512n			S26361-F5531-E530	S26361-F5531-L530
600GB	15 000	SAS 12Gb/s	512n			S26361-F5531-E560	S26361-F5531-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-F5550-E130	S26361-F5550-L130
600GB	10 000	SAS 12Gb/s	512n			S26361-F5550-E160	S26361-F5550-L160
1.2TB	10 000	SAS 12Gb/s	512n			S26361-F5550-E112	S26361-F5550-L112
300GB	10 000	SAS 12Gb/s	512n	SED		S26361-F5581-E130	S26361-F5581-L130
600GB	10 000	SAS 12Gb/s	512n	SED		S26361-F5581-E160	S26361-F5581-L160
1.2TB	10 000	SAS 12Gb/s	512n	SED		S26361-F5581-E112	S26361-F5581-L112

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-F5543-E160	S26361-F5543-L160
1.2TB	10 000	SAS 12Gb/s	512e			S26361-F5543-E112	S26361-F5543-L112
1.8TB	10 000	SAS 12Gb/s	512e			S26361-F5543-E118	S26361-F5543-L118
2.4TB	10 000	SAS 12Gb/s	512e			S26361-F5543-E124	S26361-F5543-L124
1.8TB	10 000	SAS 12Gb/s	512e	SED		S26361-F5582-E118	S26361-F5582-L118
2.4TB	10 000	SAS 12Gb/s	512e	SED		S26361-F5582-E124	S26361-F5582-L124

max. 24x - depending on base unit & configuration

L1

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-E202/E204/E208)

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

**3.5" (LFF) SATA SSD**

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

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5.0	S26361-F5775-E240	S26361-F5775-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5.0	S26361-F5775-E480	S26361-F5775-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5.0	S26361-F5775-E960	S26361-F5775-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	5.0	S26361-F5775-E192	S26361-F5775-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.5	S26361-F5775-E384	S26361-F5775-L384

max. 12x - depending on base unit & configuration

**SSD SATA 3.5" 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	S26361-F5937-E480	S26361-F5937-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	S26361-F5937-E960	S26361-F5937-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	S26361-F5937-E192	S26361-F5937-L192
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	S26361-F5937-E384	S26361-F5937-L384

max. 12x - depending on base unit & configuration

**SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray** EMEIA only  
based on **Samsung SM883** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5732-E240	S26361-F5732-L240
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5732-E480	S26361-F5732-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5732-E960	S26361-F5732-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5732-E192	S26361-F5732-L192

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 SM883** or **SM863a** drives \* 3.84TB is SM883 only

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5673-E240	S26361-F5673-L240
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5673-E480	S26361-F5673-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	S26361-F5589-E960	S26361-F5589-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3	S26361-F5589-E192	S26361-F5589-L192
3.84TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.6	S26361-F5589-E384	S26361-F5589-L384

max. 12x - depending on base unit & configuration

**SSD SATA 3.5" 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

**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	S26361-F5945-E240	S26361-F5945-L240
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5945-E480	S26361-F5945-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5945-E960	S26361-F5945-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5945-E192	S26361-F5945-L192
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5945-E384	S26361-F5945-L384
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5945-E768	S26361-F5945-L768

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** EMEIA only  
based on **Samsung PM883** drives

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E240	S26361-F5801-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E480	S26361-F5801-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E960	S26361-F5801-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E192	S26361-F5801-L192
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E384	S26361-F5801-L384
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.7	S26361-F5801-E768	S26361-F5801-L768

max. 12x - depending on base unit & configuration

**SSD SATA 3.5" Read Intensive (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray** as long as stock available  
based on **Micron 5100 PRO** or **5200 ECO** \* 240GB is 5100, others are 5200

Capacity	Formfactor	Interface	Endurance	DWPD	order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.4	S26361-F5700-E240	S26361-F5700-L240
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9	S26361-F5700-E480	S26361-F5700-L480
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9	S26361-F5700-E960	S26361-F5700-L960
1.92TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.9	S26361-F5700-E192	S26361-F5700-L192
3.84TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1.0	S26361-F5700-E384	S26361-F5700-L384
7.68TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	0.5	S26361-F5700-E768	S26361-F5700-L768

max. 12x - depending on base unit & configuration

3.5" (LFF) Hard drives

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

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

max. 12x - depending on base unit & configuration

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

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
300GB	10 000	SAS 12Gb/s	512n	S26361-F5568-E130	S26361-F5568-L130
600GB	10 000	SAS 12Gb/s	512n	S26361-F5568-E160	S26361-F5568-L160
1.2TB	10 000	SAS 12Gb/s	512n	S26361-F5568-E112	S26361-F5568-L112

max. 12x - depending on base unit & configuration

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

Capacity	RPM	Interface	Sector	order code E-part	order code L-part
1.8TB	10 000	SAS 12Gb/s	512e	S26361-F5569-E118	S26361-F5569-L118
2.4TB	10 000	SAS 12Gb/s	512e	S26361-F5569-E124	S26361-F5569-L124

max. 12x - depending on base unit & configuration

**HDD SAS 3.5" 7.2K 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	SAS 12Gb/s	512e	as long as stock available	S26361-F5626-E100	S26361-F5626-L100
2TB	7 200	SAS 12Gb/s	512e	S26361-F5626-E200	S26361-F5626-L200	
4TB	7 200	SAS 12Gb/s	512e	S26361-F5626-E400	S26361-F5626-L400	

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	S26361-F5635-E600	S26361-F5635-L600	
8TB	7 200	SAS 12Gb/s	512e	S26361-F5635-E800	S26361-F5635-L800	
12TB	7 200	SAS 12Gb/s	512e	S26361-F5571-E120	S26361-F5571-L120	
14TB	7 200	SAS 12Gb/s	512e	S26361-F5571-E140	S26361-F5571-L140	
16TB	7 200	SAS 12Gb/s	512e	S26361-F5571-E160	S26361-F5571-L160	
18TB	7 200	SAS 12Gb/s	512e	S26361-F5571-E180	S26361-F5571-L180	
6TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5584-E600	S26361-F5584-L600
8TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5584-E800	S26361-F5584-L800
12TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E120	S26361-F5624-L120
14TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E140	S26361-F5624-L140
16TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E160	S26361-F5624-L160
18TB	7 200	SAS 12Gb/s	512e	SED	S26361-F5624-E180	S26361-F5624-L180

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	S26361-F5636-E100	S26361-F5636-L100
2TB	7 200	SATA 6Gb/s	512n	S26361-F5636-E200	S26361-F5636-L200
4TB	7 200	SATA 6Gb/s	512n	S26361-F5636-E400	S26361-F5636-L400

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	S26361-F5638-E600	S26361-F5638-L600
8TB	7 200	SATA 6Gb/s	512e	S26361-F5638-E800	S26361-F5638-L800
12TB	7 200	SATA 6Gb/s	512e	S26361-F3904-E120	S26361-F3904-L120
14TB	7 200	SATA 6Gb/s	512e	S26361-F3904-E140	S26361-F3904-L140

max. 12x - depending on base unit & configuration

ECO SATA drives cannot be mixed with SAS HDD drives in same RAID controller

**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
500GB	7 200	SATA 6Gb/s	512e	S26361-F5640-E500	S26361-F5640-L500
1TB	7 200	SATA 6Gb/s	512e	S26361-F3951-E100	S26361-F3951-L100

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; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

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

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

Capacity	Formfactor	Interface	DWPD	Category	order code E-part	order code L-part
240GB	M.2	SATA 6Gb/s	1,5	Boot	S26361-F5787-E240	S26361-F5787-L240
480GB	M.2	SATA 6Gb/s	1,5	Boot	S26361-F5787-E480	S26361-F5787-L480

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

Dual microSD

Dual microSD and M.2 drive cannot be mixed

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

Capacity	Formfactor	Interface	Category	order code E-part	order code L-part
64GB	microSD	USB	Boot	S26361-F4045-E64	S26361-F4045-L64

Dual microSD is designed for use as a VMware ESXi boot drive. Only the standardly equipped microSD are supported.  
 Dual microSD offers Hardware-mirrored (RAID1) flash boot device for VMware ESXi, which cannot be supported by M.2.  
 vSAN can be booted in case ESXi host has 512 GB of memory or less. Even in case 512 GB or more, if vSAN is 6.5 or later, it can be booted by resizing the core dump partition on ESXi hosts. For more information, see the VMware knowledge base article at <http://kb.vmware.com/kb/2147881>.  
 max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

2.5" PCIe-SSDs require a RAID Controller

RAID Controller : PRAID EP540i/580i

2.5" (SFF) PCIe-SSD

this SSD will be worked with PCIe3.0 due to server specification

**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		S26361-F5905-L960
1.92TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		S26361-F5905-L192
3.84TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		S26361-F5905-L384
7.68TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		S26361-F5905-L768
15.36TB	2.5" (SFF)	PCIe4.0 x4	Read Intensive	1		S26361-F5905-L153

max. 4x - depending on base unit & configuration

**PCIe-SSD 2.5" Read Intensive** (SFF) Enterprise with hot plug/hot replace tray based on **Intel DC P4510** drives

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

max. 4x - depending on base unit & configuration

M

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

**M**

PRIMERGY TX1330 M4 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**

**1Gb Ethernet network components**

1Gb Ethernet adapters with RJ45 interface (1000BASE-T)				
PLAN AP 1x1Gbit Cu Intel I210-T1 (Retail)	2x	1 port, 1Gbit Intel	S26361-F5959-E1	S26361-F5959-L501
PLAN CP 2x1Gbit Cu Intel I350-T2	2x	2 port, Intel, PCIe Gen2 x4	S26361-F4610-E2	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4	2x	4 port, Intel, PCIe Gen2 x4	S26361-F4610-E4	S26361-F4610-L504
max. 2 adapters per system				

**10/1Gb Ethernet network components**

**10GBASE-T**

10/1Gb Ethernet network adapters with RJ45 interface (10GBASE-T)				
Dual speed support, auto-sense; supports 10Gbps and 1Gbps line rate per-port. Only Cavium adapters provide Universal RDMA capabilities, both iWARP and RoCE. Intel adapters don't provide any.				
PLAN EP QL41112 2x10GBASE-T	2x	2 port NIC with Universal RDMA, <b>Marvell FastLinQ® QL41112HLR</b> *cannot be selected with Intel X710	S26361-F4068-E2	S26361-F4068-L502
PLAN EP QL41134 4x10GBASE-T	2x	4 port NIC with Universal RDMA, <b>Marvell FastLinQ® QL41134HLR</b> *cannot be selected with Intel X710	S26361-F4068-E4	S26361-F4068-L504
PLAN EP X550-T2 2x10GBASE-T	2x	2 port NIC, Intel X550-T2	S26361-F3948-E2	S26361-F3948-L502
PLAN EP X710-T2L 2X 10GBASE-T PCIe (Retail)	2x	2 port 10 Gbit Intel *cannot be selected with Marvell QL411xx series.	S26361-F5960-E2	S26361-F5960-L502
PLAN EP X710-T4 4x10GBASE-T	2x	4 port NIC, Intel X710-T4 *cannot be selected with Marvell QL411xx series.	S26361-F3948-E4	S26361-F3948-L504
max. 4 adapters per server system				

**10G SFP+**

10/1Gb Ethernet network adapters with SFP+ cage. Adapter ships with empty cages.				
Each cage consumes 1x optical SFP+ transceiver per port, or 1x twinax cable per port, or 1x DAC cable per port. Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules. Only Marvell FastLinQ adapters provide Universal RDMA capabilities, both iWARP and RoCE. Intel adapters don't provide any.				
For Converged Network Adapter features such as iSCSI, iSCSI Offload, FCoE please select the PCNA EP QL41262 from the Converged Ethernet network adapters section				
PLAN EP QL41132 2x10Gb SFP+	2x	2 port NIC with Universal RDMA, <b>Marvell FastLinQ® QL41132HLCU</b> *cannot be selected with Intel X710	S26361-F4069-E2	S26361-F4069-L502
PLAN EP QL41134 4x10Gb SFP+	2x	4 port NIC with Universal RDMA, <b>Marvell FastLinQ® QL41134HLCU</b> *cannot be selected with Intel X710	S26361-F4069-E4	S26361-F4069-L504
PLAN EP X710-DA2 2x10Gb SFP+	2x	2 port NIC, Intel X710-DA2 *cannot be selected with Marvell QL411xx series.	S26361-F3640-E2	S26361-F3640-L502
PLAN EP X710-DA4 4x10Gb SFP+	2x	4 port NIC, Intel X710-DA4 *cannot be selected with Marvell QL411xx series.	S26361-F3640-E4	S26361-F3640-L504
<b>Optional, 10Gb SFP+ optical transceiver module, select one per cage.</b>				
<b>Both brands (Finisar, Intel) are supported with all (Intel, Marvell) adapter brands.</b>				
SFP+ Optical Transceiver 10G Single Rate SR	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, <b>Finisar</b>	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, <b>Finisar</b>	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x .. 4x	LC, MMF / SR SFP+ module, up to 400m, <b>Intel</b>	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x .. 4x	LC, SMF / LR SFP+ module, up to 10km, <b>Intel</b>	S26361-F3986-E6	S26361-F3986-L6
"Virtual Connector" for Twinax cables	2x .. 4x	Enablement for System Architect	<b>V:TWX CONNECTOR-PY</b>	
SFP+ active Twinax Cable Fujitsu	2x .. 4x	Customized length. Best fitting length selected at rack factory installation.	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	2x .. 4x	selected at rack factory installation.	S26361-F3873-E500	
<i>Max. 2x SFP+, DAC, or Twinax Cable per 2 port adapter. Max. 4x SFP+, DAC, or Twinax Cable per 4 port adapter.</i>				
max. 4 adapters per server system				

10Gb Converged Ethernet network components

25Gb Converged Ethernet network components

10G SFP+

25G SFP28

<b>10/25Gb Converged Ethernet network adapters with SFP+/SFP28 cages. Adapter ships with empty cages.</b>				
10G: Each cage consumes 1x optical SFP+ transceiver per port, or 1x twinax cable per port, or 1x DAC cable per port. Dual rate 10G/1G transceivers will work at 10G line rate only.				
25G: Each cage consumes 1x optical SFP28 transceiver per port, or 1x 25G DAC cable per port. 25G transceivers will work at 25G line rate only.				
For Converged Network Adapter features such as iSCSI, iSCSI Offload, FCoE please select the PCNA EP QL41262. Other adapters do not support CNA features. iSCSI and iSCSI Offload support will not be included in the initial hardware release. If you wish to get support for FCoE please submit a Release Request with the desired PRIMERGY server system configuration SAR/XLSX file attachment as described in the process.				
PCNA EP QL41262 2x10/25Gb SFP+/SFP28	2x	2 port <b>CNA</b> with FCoE, iSCSI Offload, Universal RDMA, <b>Marvell FastLinQ®</b> QL41262HLCU	S26361-F4070-E2	S26361-F4070-L502
<b>Optional, 10Gb SFP+ optical transceiver module, one per cage or port</b>				
SFP+ Optical Transceiver 10G Single Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, <b>Finisar</b>	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, <b>Finisar</b>	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, <b>Intel</b>	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, <b>Intel</b>	S26361-F3986-E6	S26361-F3986-L6
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	2x	Customized length. Best fitting length	S26361-F3989-E600	see table at the
SFP+ active Twinax Cable Brocade	2x	selected at rack factory installation.	S26361-F3873-E500	bottom of this page
<i>Max. 2x SFP+, DAC, or Twinax Cable per adapter</i>				
<b>Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.</b>				
SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	S26361-F4054-E701	S26361-F4054-L701
SFP28 Optical Transceiver 25G SR E25GSFP28SR LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	S26361-F4055-E701	S26361-F4055-L701
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-25	
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet.		
25G DAC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G DAC - Intel	2x			
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet.		
25G AOC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G AOC - Intel	2x			
<i>Max. 2x SFP28, 25G DAC, or 25G AOC per adapter</i>				
max. 2x adapters per system				

25/10Gb Ethernet network components

10G SFP+

25G SFP28

25/10Gb Ethernet network adapter with 2x SFP28 cages (requires twinax cables or optical transceiver SFP28 or SFP+ modules)

Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port. Your choice of optical transceiver decides about the actual line rate.

Only Cavium adapters provide Universal RDMA capabilities, both iWARP and RoCE. Mellanox adapters provide RoCE RDMA only. Intel adapters don't provide any.

PLAN EP QL41212 25Gb 2p SFP28	2x	2 port NIC with Universal RDMA: iWARP & RoCE, <b>Marvell FastLinQ®</b>	S26361-F4056-E2	S26361-F4056-L502
PLAN EP MCX4-LX 25Gb 2p SFP28	2x	2 port NIC with RDMA: RoCE, <b>Mellanox ConnectX4-LX</b>	S26361-F4054-E2	S26361-F4054-L502
PLAN EP XXV710-DA2 2x25Gb	2x	2 Port NIC, <b>Intel XXV710-DA2</b>	S26361-F4055-E2	S26361-F4055-L502

Optional, 25Gb SFP28 optical transceiver module with LC connector, each cage consumes one.

SFP28 Optical Transceiver 25G SR MMA2P00-AS LC	2x	MMF / SR SFP28 module, Mellanox. Max reach supported 100m	S26361-F4054-E701	S26361-F4054-L701
SFP28 Optical Transceiver 25G SR E25GSFP28SR LC	2x	MMF / SR SFP28 module, Intel. Max reach supported 30m	S26361-F4055-E701	S26361-F4055-L701
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	V:DAC/AOC-CONNECTOR-25	
25G DAC - Brocade	2x	DAC are not in Fujitsu's portfolio yet.		
25G DAC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G DAC - Intel	2x			
25G AOC - Brocade	2x	AOC are not in Fujitsu's portfolio yet.		
25G AOC - Cisco	2x	Thus, test only and purchase from switch vendors.		
25G AOC - Intel	2x			

Max. 2x SFP28, 25G DAC, or 25G AOC per adapter

Optional, 10Gb SFP+ optical transceiver module, each cage consumes one.

SFP+ Optical Transceiver 10G Single Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, <b>Finisar</b>	S26361-F3986-E3	S26361-F3986-L3
SFP+ Optical Transceiver 10G Single Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, <b>Finisar</b>	S26361-F3986-E4	S26361-F3986-L4
SFP+ Optical Transceiver 10G/1G Dual Rate SR	2x	LC, MMF / SR SFP+ module, up to 400m, <b>Intel</b>	S26361-F3986-E5	S26361-F3986-L5
SFP+ Optical Transceiver 10G/1G Dual Rate LR	2x	LC, SMF / LR SFP+ module, up to 10km, <b>Intel</b>	S26361-F3986-E6	S26361-F3986-L6
"Virtual Connector" for Twinax cables	2x	Enablement for System Architect	V:TWX CONNECTOR-PY	
SFP+ active Twinax Cable Fujitsu	2x	Customized length. Best fitting length selected at rack factory installation.	S26361-F3989-E600	see table at the bottom of this page
SFP+ active Twinax Cable Brocade	2x		S26361-F3873-E500	

Max. 2x SFP+, DAC, or Twinax Cable per adapter

max. 4x adapters per system

V:TWX Con.-PY for all Twinax Cables  
max. 1x per port

S26361-F3989-E600 *)		S26361-F3873-E500 *)		S26361-F4571-E500 *)	
S26361-F3989-L102	2m	S26361-F3873-L501	1m	S26361-F4571-L101	1m
S26361-F3989-L105	5m	S26361-F3873-L503	3m	S26361-F4571-L103	3m
S26361-F3989-L110	10m	S26361-F3873-L505	5m	S26361-F4571-L105	5m
SFP+ active twinax cable Fujitsu		SFP+ active twinax cable		S26361-F4571-L107	7m
customized twinax cable for full rack setup ex factory.		customized twinax cable for full rack setup ex factory.		S26361-F4571-L110	10m
Fujitsu branded cable		Brocade branded cable		SFP+ twinax cable Cisco	
1x per port		1x per port		customized twinax cable for full rack setup ex factory.	
				Cisco branded cable	
				1x per port	

\*) = cable length will be optimized depending on the rack / server version

M - FC



**Chapter 11 - Communication / Fibre Channel Components**

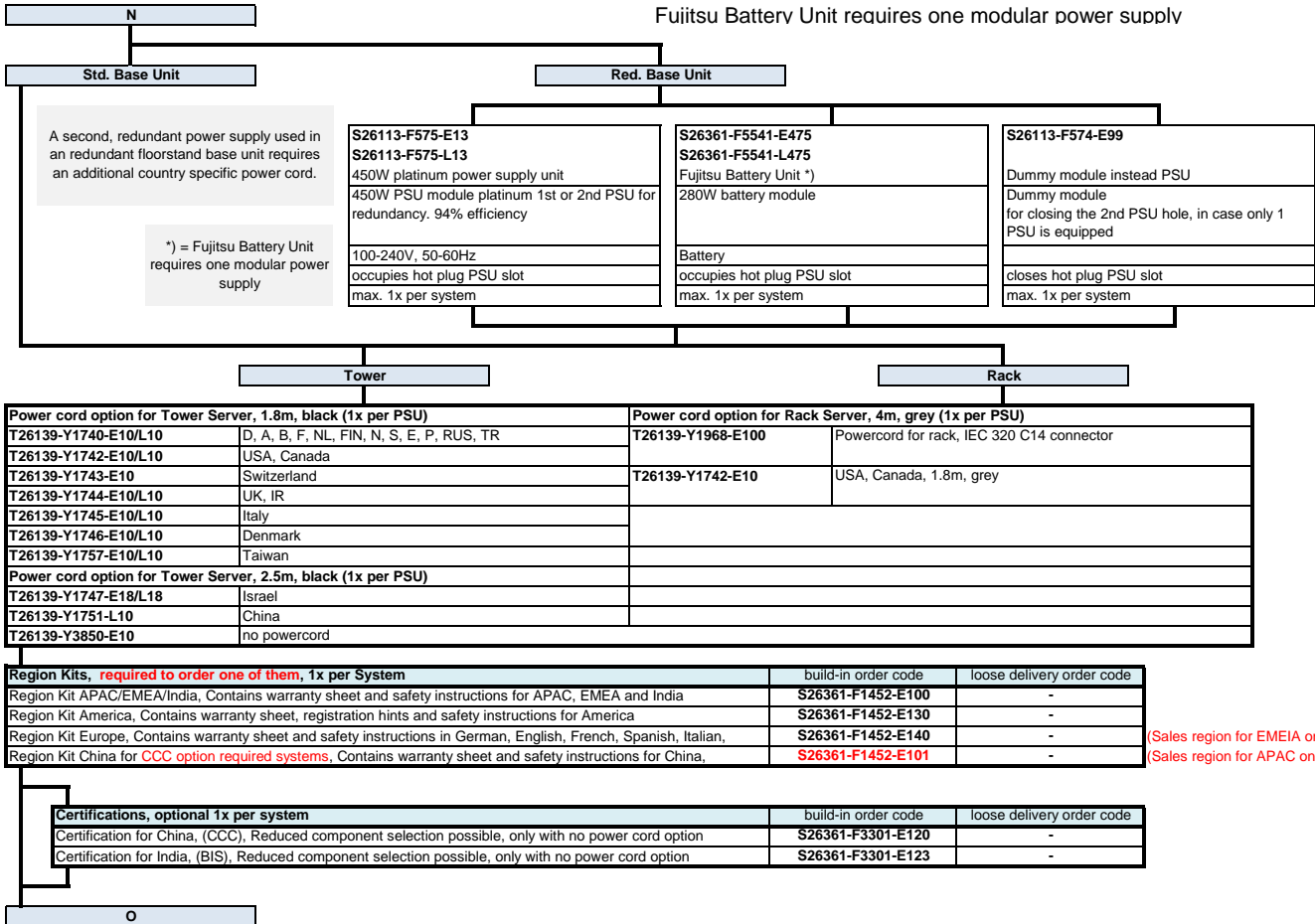
**M-FC**

**Fibre Channel PCIe Adapters**

<b>32Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)</b>				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 32, 16, and 8Gbps.				
PFC EP LPe32002 2x 32Gb	2x	2 ports, full height, Broadcom/Emulex	<b>S26361-F4044-E2</b>	<b>S26361-F4044-L502</b>
PFC EP LPe32000 1x 32Gb	2x	1 port, full height, Broadcom/Emulex	<b>S26361-F4044-E1</b>	<b>S26361-F4044-L501</b>
PFC EP QLE2742 2x 32Gb	2x	2 ports, full height, Cavium/Qlogic	<b>S26361-F4043-E2</b>	<b>S26361-F4043-L502</b>
PFC EP QLE2740 1x 32Gb	2x	1 port, full height, Cavium/Qlogic	<b>S26361-F4043-E1</b>	<b>S26361-F4043-L501</b>
<b>16Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)</b>				
These components ship with optical transceiver modules equipped for all ports. Supported line rates: 16, 8, and 4Gbps.				
PFC EP LPe31002 2x 16Gb	2x	2 ports, full height, Broadcom/Emulex	<b>S26361-F5596-E2</b>	<b>S26361-F5596-L502</b>
PFC EP LPe31000 1x 16Gb	2x	1 port, full height, Broadcom/Emulex	<b>S26361-F5596-E1</b>	<b>S26361-F5596-L501</b>
PFC EP QLE2692 2x 16Gb	2x	2 ports, full height, Cavium/Qlogic	<b>S26361-F5580-E2</b>	<b>S26361-F5580-L502</b>
PFC EP QLE2690 1x 16Gb	2x	1 port, full height, Cavium/Qlogic	<b>S26361-F5580-E1</b>	<b>S26361-F5580-L501</b>
max. 2 adapters per system (mixed configurations are supported)				

**N**

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



**Chapter 15 - Accessories**

O

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

USB Mouse:		
Mouse M520 Black	S26381-K467-E100	S26381-K467-L100
Mouse M520 Grey	S26381-K467-E101	S26381-K467-L101
Mouse M530 Black	n/a	S26381-K468-L100
Mouse M530 Grey	n/a	S26381-K468-L101

USB Memory Sticks - Available until August 2020. No successor planned.		
ADATA UC350 USB3.1 Type C OTG Flash Drive 64GB		S26391-F6048-L464

USB Keyboards for Tower Servers for following countries:		
USB professional Keyboard KBPC PX ECO	Country version	FUJITSU Keyboard KB521 USB (grey)
	US/ int 105 keys (UK keyboard + US int. Layout)	S26381-K521-E102
S26381-K341-E104	Czech/Slovak	S26381-K521-E104
S26381-K341-E110	US 104 keys (US keyboard + US layout)	S26381-K521-E110
S26381-K341-E120	Germany	S26381-K521-E120
S26381-K341-E122	Germany / Int	S26381-K521-E122
S26381-K341-E140	France	S26381-K521-E140
S26381-K341-E154	Sweden / Finland	S26381-K521-E154
S26381-K341-E165	United Kingdom	S26381-K521-E165
S26381-K341-E170	Switzerland	S26381-K521-E170
S26381-K341-E180	Spain	S26381-K521-E180
S26381-K341-E185	Italy	S26381-K521-E185

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

P

Please find the layout of all Fujitsu keyboards here:  
<http://abg0355a.abg.fsc.net/>



**Chapter 16 - Others (Energy Star restriction)**

P

<b>S26361-F3301-E241</b>
E-Star Fam1 Certification
RX/TX13x0 Mx E-Star Fam1
Limits configuration in accordance with Energy Star requirements
max. 1x per system

limitations for E-Star Fam1 certification.

**please make sure to follow the guidelines below in order meet ENERGY STAR V3.0 Fam1 requirements:**

use redundant PSU

do not use one of the following CPUs : Pentium Gold G5400 / G5420; Celeron G4900 / G4930  
Xeon E-2278G / E-2286G / E-2288G

use even number of RAM modules (2 or 4)

use at least 16GB of RAM

do not use 3.5" (LFF) drives

do not use M.2 Modules

do not use more than 4x 2.5" (SFF) HDD, SSD

do not use PCIe SSD

do not use more than one PCIe card (RAID, LAN, ...)

do not use an Expander card

do not use a graphics card

ENERGY STAR-configurationen will be labeld:

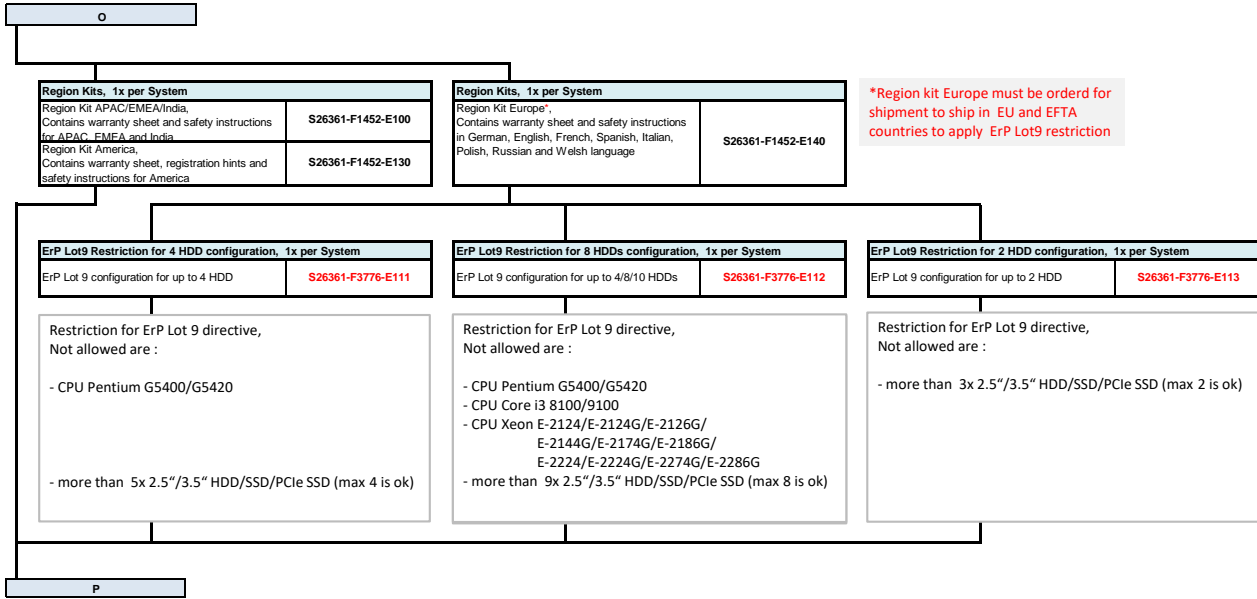
non ENERGY STAR-configurationen will be labeld:

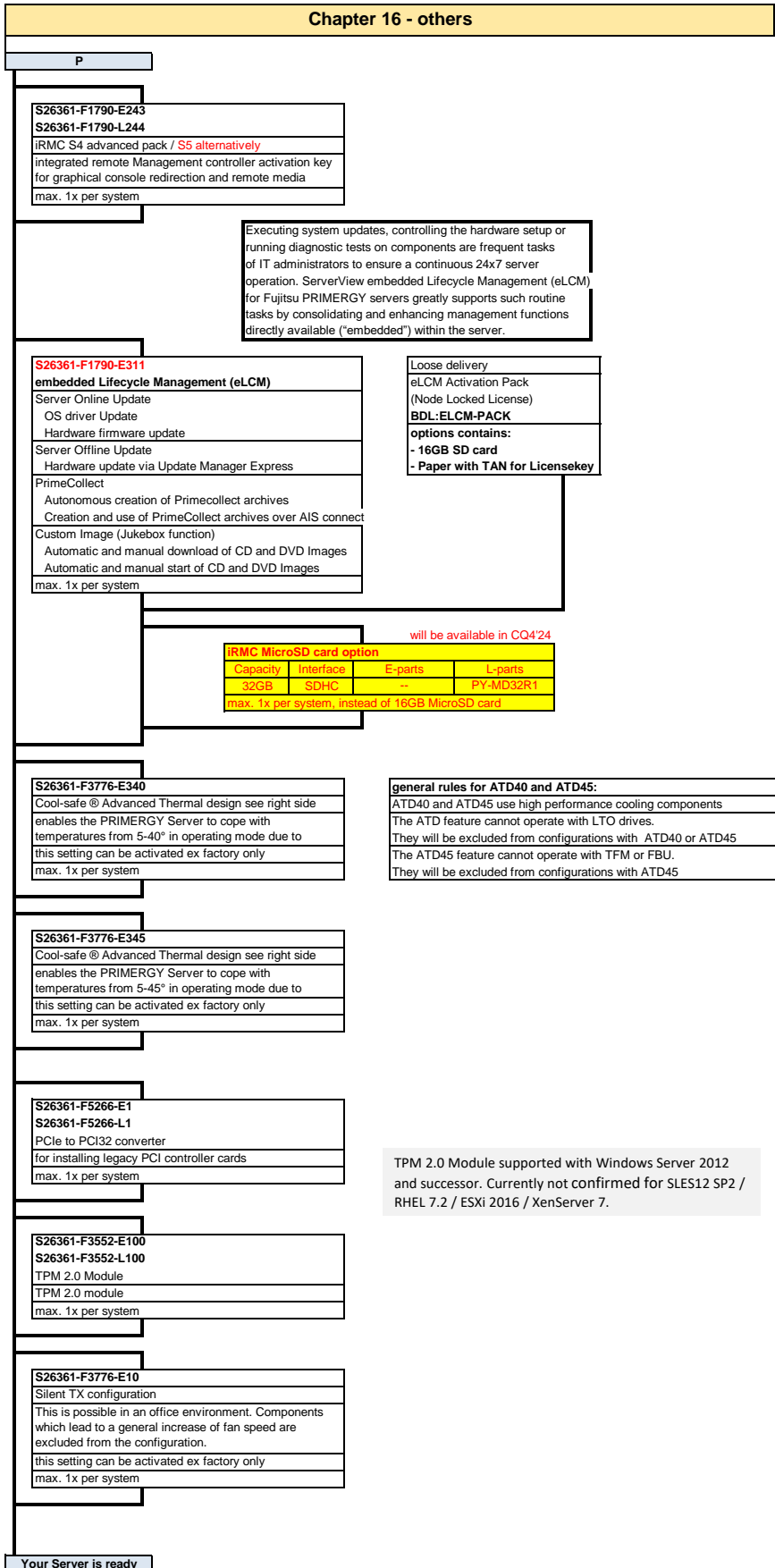
**PRIMERGY TX1330 M4 E-Star Fam1**

**PRIMERGY TX1330 M4**

Q

**Chapter 16 - Others (ErP Lot 9 restriction)**





Date of change	Configurator revision	Folder / order code / description	What has been changed / comment	Name
16.06.2022	1,22	change_history	Introduce this history table with a new style	
12.01.2018			first draft	
04.02.2018		CPU & RAM	New CPU & Memory portfolio added	
12.02.2018		LAN	Ethernet Networking portfolio	
12.02.2018		FC	Fibre Channel portfolio	
15.02.2018		ODD	Local Service Display deleted	
15.02.2018		base	new order code for conversion kits	
21.02.2018		HD_SSD	updated	
22.02.2018		S26361-F5243-E1 ==> E11 ...	RAID, PRAID EP4xxi changed to large heatsink	
02.03.2018		HD_SSD / S26361-F5707/F570	added	
08.03.2018		CPU & RAM	Order codes added	
05.04.2018		others	Update of TPM order codes	
10.04.2018		base	order code for std to Redundant Fan/PSU Upgrade Kit corrected	
11.04.2018		HD-Cage / RAID	Update for NVMe	
24.04.2018		base	typo in description text corrected	Mario Bez
24.04.2018		GFX	Order Code for P400 added	
08.05.2018		HD_SSD	S26361-F5675/F5588/F5673/F5589-* removed	
08.05.2018		HD_SSD	HDD SAS/SATA 3.5" 7.2K updated	
15.05.2018		RAID	changed number of PRAID EP5x0i RAID Contr. to 2 to allow NVMe option	
15.06.2018		RAID	added PRAID EP520i for SAS, SATA only	
22.06.2018		iRMC/eLCM	iRMC description changed, eLCM order number changed	
26.06.2018		others	new ATD Order Codes added	
11.07.2018		GFX	Update Graphic card information.	
12.07.2018		HD_SSD / S26361-F5675/F5588	added	
12.07.2018		others	Remark for ATD edited	
24.07.2018		HDD cage	NVMe kit added to 2.5" versions	
23.08.2018		LAN / S26361-F4068-E2, L502	Added: PLAN EP QL41112 2x10GBASE-T	
23.08.2018		LAN / S26361-F4068-E4, L504	Added: PLAN EP QL41134 4x10GBASE-T	
23.08.2018		LAN / S26361-F4069-E2, L502	Added: PLAN EP QL41132 2x10Gb SFP+	
23.08.2018		LAN / S26361-F4070-E2,	Added: PCNA EP QL41262 2x10/25Gb SFP+/SFP28	
23.08.2018		LAN	Cosmetic changes: 25G Ethernet section	
30.08.2018		LAN	LAN / Typo max 2 --> 3	
18.09.2018		GFX	Modify Graphic Card - Options in "GFX" tab. - add "DP- DVI/D" adapter	Takayuki Sasaki
26.09.2018		HD_SSD / S26361-	added SSD SATA MU 3.84TB	
26.09.2018		HD_SSD / S26361-	removed SSD SATA MU S4600	
26.09.2018		HD_SSD / PCIe SSD Low	added PCIe SSD R1 960GB/1.92TB/3.85TB	
26.09.2018		CPU	Minor technical update on 2 CPUs	
27.09.2018		RAID	changed number of PRAID EP520i from 2x to 1x	
12.10.2018		HD_SSD	removed the products under development	
29.10.2018		HD_SSD / S26361-	added	
30.10.2018		base	typo corrected: Tower-to-Rack conv kit (S26361-F1729-L290)	
13.09.2018		Others / S26361-F3776-E10	Silent TX configuration added	
04.02.2019		HD_SSD / S26361-	removed the description as "as soon as available"	
04.02.2019		HD_SSD	added the description about Supplier/ModelName of SSD	
13.02.2019		HD_SSD / S26361-F3907-* /	added the exclusion for HDD SATA 2.5" 7.2K 512e and PRAID EP5x0i	
19.03.2019		RAID, HDD case; new partnumbers for NVMe RAID	added new numbers and changed some comments	
17.05.2019		HD_SSD / S26361-	added the order codes for EMEIA only	
22.05.2019		HD_SSD / S26361-	removed the order codes for EMEIA only	
02.07.2019		LAN / S26361-F4069-E4, L504	Added: PLAN EP QL41134 4x10G SFP+	
02.07.2019		HD_SSD / S26361-	added HDD SAS/SATA 3.5" 7.2K 512e 14TB	
18.07.2019		HD_SSD / S26361-F3904-	removed HDD SATA 3.5" 7.2K 512e 14TB	
21.08.2019		CPU & RAM	Added refresh portfolio	
30.08.2019		Energy Star restrictions	sheet added	
03.09.2019		HD_SSD / S26361-	added for EMEIA only	
04.09.2019		CPU	Added comment on 64/128 GB support	
04.09.2019		CPU	Additional comment on refresh SKUs	
11.10.2019		CPU	All CPUs support 128GB memory with new BIOS released	
07.11.2019		S26391-F6048-L464	New USB memory stick accessory device 64GB. No longer 32GB.	
08.11.2019		PSU / T26139-Y1751-E10 /	removed power cable	
18.11.2019		CPU	PSU restriction for 95W CPU added	
18.11.2019		others	limitations for ATD added	
06.12.2019		HD_SSD	updated the description about Hard Disk Sector Format Information	
10.12.2019		HD_SSD / S26361-	removed, because SA cannot possible the restriction of EMEIA only	
20.12.2019		HD_SSD / S26361-F5732-* /	added for AS HCI configurations	
27.02.2020		HD_SSD / S26361-F3904-	added HDD SATA 3.5" 7.2K 512e 14TB	
04.03.2020		ErP Lot9 restriction	added ErP Lot9 restriction in new sheet ErP Lot9	
10.03.2020		ErP Lot9 restriction	updated ErP Lot9 restriction	
18.03.2020		others	M4Y removed	
18.03.2020		PSU	Region kit China added	
29.05.2020		PSU	removed Made in Germany sticker	
22.07.2020		Energy Star restrictions	add CPU restriction (Xeon E-2278G / E-2286G / E-2288G)	

07.08.2020		HD_SSD	add the new drives for SSD SATA 2.5/M.2 and HDD SAS 16TB	
25.09.2020		backup	add LTO8 tape drive, remove LTO5 tape drive add RDX Cartridge 4TB, remove RDX Cartridge 3TB	
09.12.2020		RAID / S26361-F5888-E1	added PSAS CP 2100-8i for MS HCI	
01.03.2021		HD_SSD	added the P4510 as PCIe-SSD Read-Int.	
01.04.2021		RAID / S26361-F5792-E53 /	added PSAS CP503i	
06.04.2021		RAID / S26361-F4042-*	updated max qty for PRAID EP5x0i and FBU	
06.05.2021		others / S26361-F3552-E101	removed TPM 1.2 Module	
07.09.2021		HD_SSD	added the BC-SAS 18TB as new products	
15.09.2021		RAID / S26361-F5791/F5792-*	added PRAID CP500i and PSAS CP503i	
30.09.2021		RAID	added Notes for PRAID CP500i	
14.10.2021		HDD cage	Restriction added "4x 2.5" NVMe kit in accessible drive area"	
14.10.2021		LAN	Added I210-T1(Retail) and X710-T2L(Retail)	
26.10.2021		HD_SSD	removed "as soon as available" due to releasing	
08.11.2021		RAID / S26361-F5888-*	added PSAS CP 2100-8i	
19.11.2021		HD_SSD	added the restriction for ECO-SATA drives (recovered missing information	
14.12.2021		LAN	Released I210-T1(Retail) and X710-T2L(Retail) Added the restriction for Intel/Marvell LAN	
23.12.2021		RAID	updated Notes for PSAS CP 2100-8i	
10.02.2022		RAID	removed PSAS/PRAID CP4xx(F3842), PRAID EP4xx(F5243) due to EOL	
01.03.2022		RAID	updated Note for PSAS CP 2100-8i	
01.03.2022		backup	removed PSAS CP400i, LTO6 due to EOL	
04.03.2022		RAID	updated about BSMI for PSAS CP 2100-8i	
14.04.2022		HD_SSD	added new order codes for SSD SATA "PM893/PM897"	
10.06.2022		RAID	removed BSMI limitation from PSAS CP 2100-8i	
28.07.2022	1,23	RAID, backup	restored PSAS/PRAID CP4xx (F3842), PRAID EP4xx (F5243)	
04.08.2023	1,24	HD_SSD	added the Kioxia CM6 as PCIe-SSD	
16.02.2024	1,25	others	added the iRMC MicroSD card option for eLCM	Y. Sugiyama
25.03.2024	1,26	others	eLCM	Y. Sugiyama