

PRIMERGY TX1330 M4
Tower or 4U Rack server

FUJITSU



2nd draft

| 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 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 Components |
| 12 | LAN_FC_IB | 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.

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

Chapter xx - description of chapter

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

| |
|---|
| 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

For further information see:

Link to datasheet:

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

http://ts.fujitsu.com/products/standard_servers/index.html

(internet)

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

mid drive area (yellow color code) - optional with

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

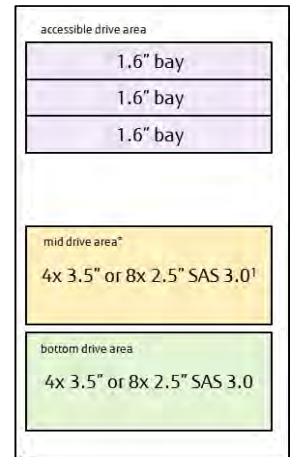
bottom drive area (green color code) - mandatory with

- 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

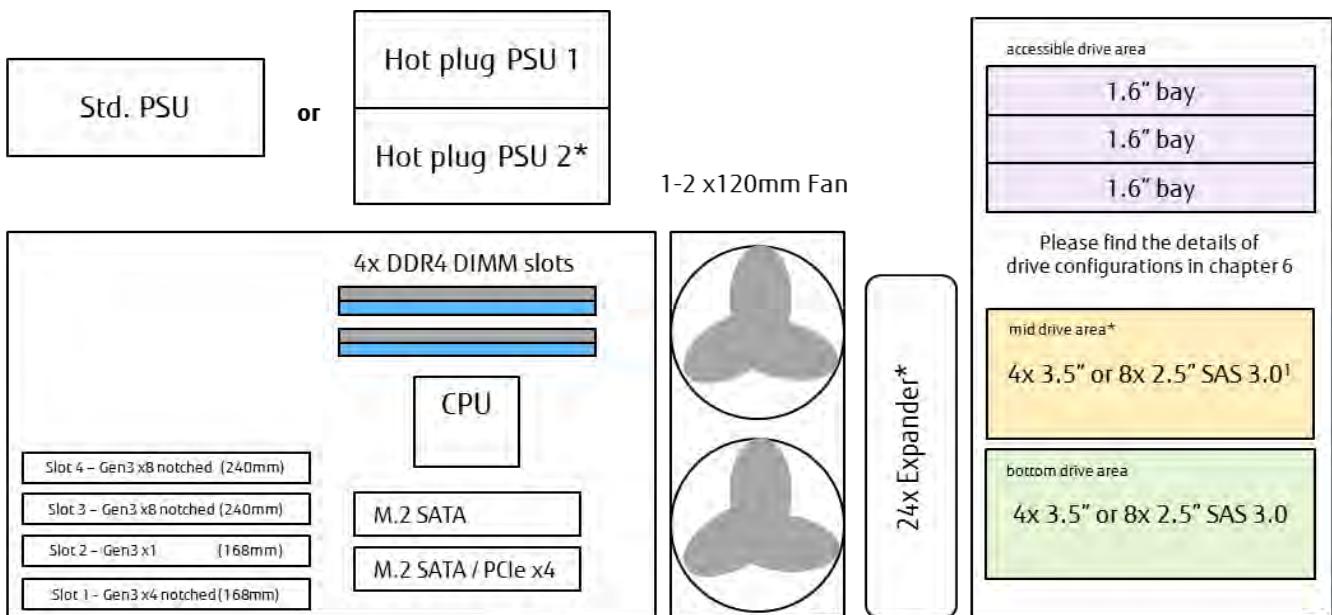
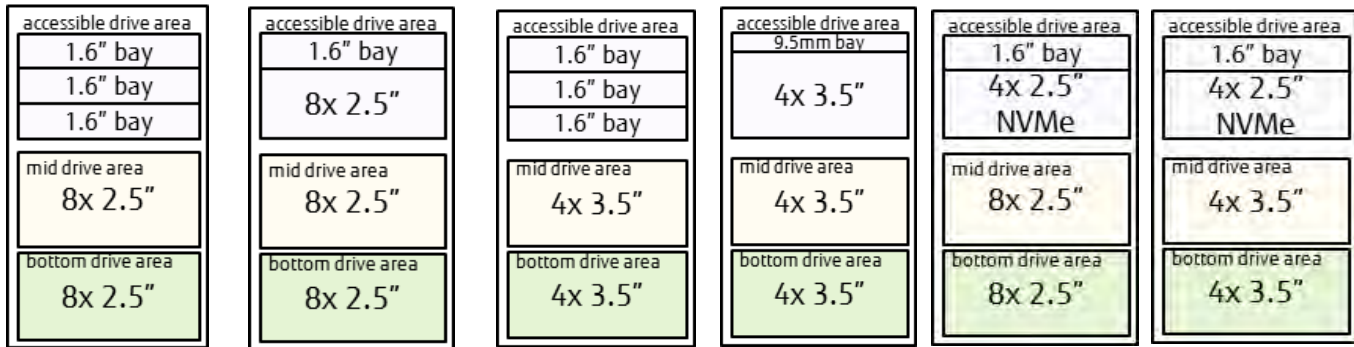
3rd cage (2nd upgrade)

2nd cage (1st upgrade)

Start



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



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

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, Pention, 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 Grafics 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)

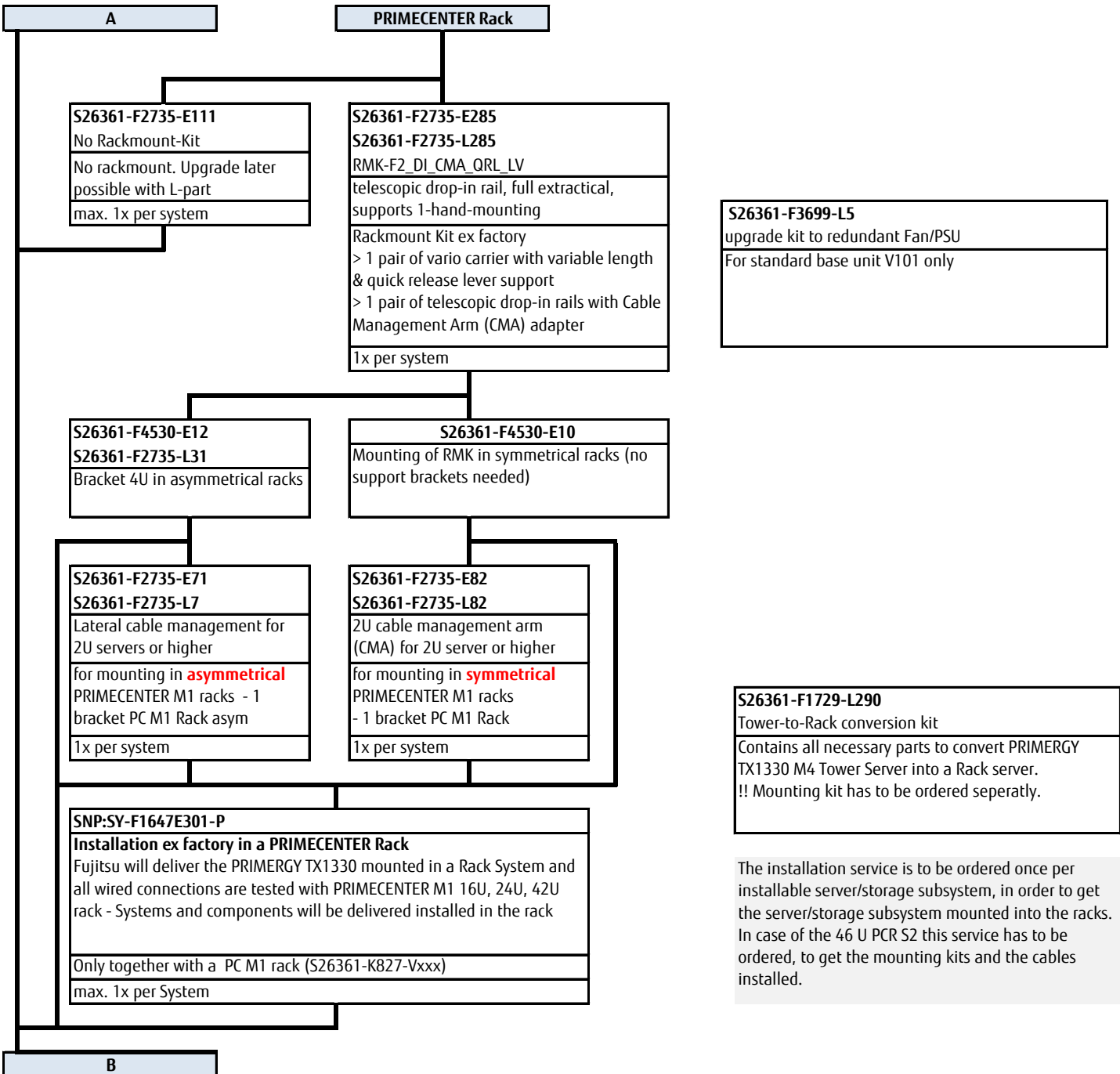
| |
|--|
| Floorstand |
| S26361-K1639-V101 |
| TX1330 M4 Base Unit standard |
| |
| S26361-K1639-V201 |
| TX1330 M4 Base Unit redundant Fan and hot plug PSU |

| |
|--|
| Rack |
| to create an Rack Base Unit w/ standard PSU you can use the Tower-to-Rack conversion kit (S26361-F1729-L290) |
| |
| S26361-K1639-V601 |
| 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:

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

| | |
|---|------------------------|
| Std to Redundant Fan/PSU Upgrade Kit | S26361-F3699-L5 |
| 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

Pentium Coffee Lake)

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 |

Core i3 (Coffee Lake)

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 |

Xeon E3-12xx v6 (Kaby Lake-E)

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 |

Xeon E3-22xx v6 (Kaby Lake-E Refresh)

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

| |
|---|
| S26361-F4066-E400 |
| S26361-F4066-L400 |
| PGRA CP NVIDIA Quadro P400 |
| NVIDIA Quadro |
| 2GB PCIe 3.0 x16 |
| Connectors: 3x Mini-DP |
| no cable kits included |
| cables must be ordered separately |
| 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.

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

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

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

F



| | | | | |
|---|---|--|--|--------------------------|
| <div style="border: 1px solid black; padding: 2px;">accessible drive area</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 1px dashed black; padding: 2px; margin-bottom: 2px;">mid drive area</div> <div style="border: 1px dashed black; padding: 2px; margin-bottom: 2px;">8x 2.5"</div> <div style="border: 2px dashed red; padding: 2px; margin-bottom: 2px;">bottom drive area</div> <div style="border: 2px dashed red; padding: 2px;">8x 2.5"</div> | 1) S26361-F3899-E208 | 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 | | |
| | 2a) recommended RAID configuration | | 2b) possible RAID controllers | |
| | 1x S26361-F3842-E1 | PRAID CP400i | 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 |
| | 3) accessible drive area | | 3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives | |
| | 3) S26361-F3899-E21 | 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** | | |
| | 4) S26361-F3899-L11 | 8x 2.5" HDD kit for mid drive area incl. Expander, SAS 3.0 BPL & cables | | |
| | 4) S26361-F3899-L12 | 8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area* | | |
| 4) S26361-F3899-L21 | 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** | | | |
| 4) Restriction | upgrade of mid drive area requires redundant Base Unit (V201, V601) | | | |
| 5) Remark | 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

| | | | | |
|---|---|---|--|--------------------------|
| <div style="border: 1px solid black; padding: 2px;">accessible drive area</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 2px dashed red; padding: 2px; margin-bottom: 2px;">mid drive area</div> <div style="border: 2px dashed red; padding: 2px; margin-bottom: 2px;">8x 2.5"</div> <div style="border: 2px dashed red; padding: 2px;">bottom drive area</div> <div style="border: 2px dashed red; padding: 2px;">8x 2.5"</div> | 1) S26361-F3899-E216 | 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 | | |
| | 1) Restriction | | redundant Base Unit (V201, V601) required | |
| | 2a) recommended RAID configuration | | 2b) possible RAID controllers | |
| | 1x S26361-F3842-E2 | PSAS CP400i for MS spaces | 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 |
| | 3) accessible drive area | | 3x 1.6" bays for DVD, Blu Ray, LTO or RDX drives or additional HDD cages available | |
| | 3) S26361-F3899-E21 | 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** | | |
| | 4) S26361-F3899-L12 | 8x 2.5" HDD kit SAS 3.0 BPL & cables for accessible drive area | | |
| 4) S26361-F3899-L21 | 4x 2.5" NVMe kit incl. BPL & cables for accessible drive area** | | | |

**) EP540i or EP580i NVMe RAID controller required

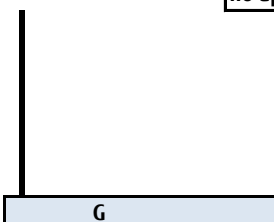
**) EP540i NVMe = S26361-F4042-E24, EP580i NVMe = S26361-F4042-E28

| | | | | |
|--|---|--|--|--------------------------|
| <div style="border: 1px solid black; padding: 2px;">accessible drive area</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">1.6" bay</div> <div style="border: 2px dashed red; padding: 2px; margin-bottom: 2px;">8x 2.5"</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">mid drive area</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 2px;">8x 2.5"</div> <div style="border: 1px solid black; padding: 2px;">bottom drive area</div> <div style="border: 1px solid black; padding: 2px;">8x 2.5"</div> | 1) S26361-F3899-E224 | 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 | | |
| | 1) Restriction | | redundant Base Unit (V201, V601) required | |
| | 2a) recommended RAID configuration | | 2b) possible RAID controllers | |
| | 1x S26361-F3842-E2 | PSAS CP400i for MS spaces | 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 |
| | 3) accessible drive area | | 1x 1.6" bays for DVD, Blu Ray, LTO or RDX drives available | |
| | no upgrades possible | | | |

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/SSD | based on Intel chipset | No Cache | SW-RAID 0, 1 | 1x | onboard |
|-------------------------------|------------------------|----------|--------------|----|---------|

internal HBA and RAID controller, no 2nd Level cache

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

| | | | | | |
|----------------------------|----------|--------------------------|----|-----------------|-------------------|
| PRAID CP400i RAID Contr. | No Cache | RAID 0, 1, 1E, 10, 5, 50 | 1x | S26361-F3842-E1 | S26361-F3842-L501 |
| PSAS CP400i HBA SAS Contr. | 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 LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008

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

| | | | | | |
|--------------------------|-----------|---------------------------------|----|------------------|------------------|
| PRAID EP400i RAID Contr. | 1GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 1x | S26361-F5243-E11 | S26361-F5243-L11 |
|--------------------------|-----------|---------------------------------|----|------------------|------------------|

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI 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 |
|--|----|-------------------|-------------------|

optional Transportable Flash module (TFM) and Flash Backup Unit (FBU), both components required

| | | | | |
|-----------------------------|---|----|-------------------|-------------------|
| TFM module for 1GB Cache | NV-RAM & FBU control logic | 1x | S26361-F5243-E100 | S26361-F5243-L100 |
| FBU Option for PRAID EP4xxx | 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 |

| | | | | | |
|--------------------------------------|-----------|---------------------------------|----|-------------------|-------------------|
| PRAID EP420i RAID Contr. | 2GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 1x | S26361-F5243-E12 | S26361-F5243-L12 |
| PRAID EP420i for SafeStore R. Contr. | 2GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 1x | S26361-F5243-E14* | S26361-F5243-L14* |

8 ports 3, 6 & 12Gb/s SAS/SATA HDD/SSD, supports up to 8 devices without expander
requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI 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 |
|--|----|-------------------|-------------------|

optional TFM module and Flash Backup Unit (FBU), both components required

| | | | | |
|-----------------------------|---|----|-------------------|-------------------|
| TFM module for 2GB Cache | NV-RAM & FBU control logic | 1x | S26361-F5243-E200 | S26361-F5243-L200 |
| FBU Option for PRAID EP4xxx | 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 |

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

| | | | | | |
|--------------------------|-----------|---------------------------------|----|-----------------|-------------------|
| PRAID EP520i RAID Contr. | 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

| | | | | | |
|-----------------------------|-----------|---------------------------------|----|-----------------|-------------------|
| PRAID EP540i RAID Contr. FH | 4GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 2x | S26361-F4042-E4 | S26361-F4042-L504 |
| PRAID EP580i RAID Contr. FH | 8GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 2x | 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)

| | | | | | |
|----------------------|-----------|---------------------------------|----|------------------|-------------------|
| PRAID EP540i NVMe FH | 4GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 2x | S26361-F4042-E24 | S26361-F4042-L504 |
| PRAID EP580i NVMe FH | 8GB Cache | RAID 0, 1, 1E, 10, 5, 50, 6, 60 | 2x | 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

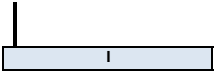
| | | | | |
|-----------------------------|---|----|-------------------|-------------------|
| FBU Option for PRAID EP5xxx | Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm length | 2x | S26361-F4042-E155 | S26361-F4042-L110 |
|-----------------------------|---|----|-------------------|-------------------|

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 2x 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

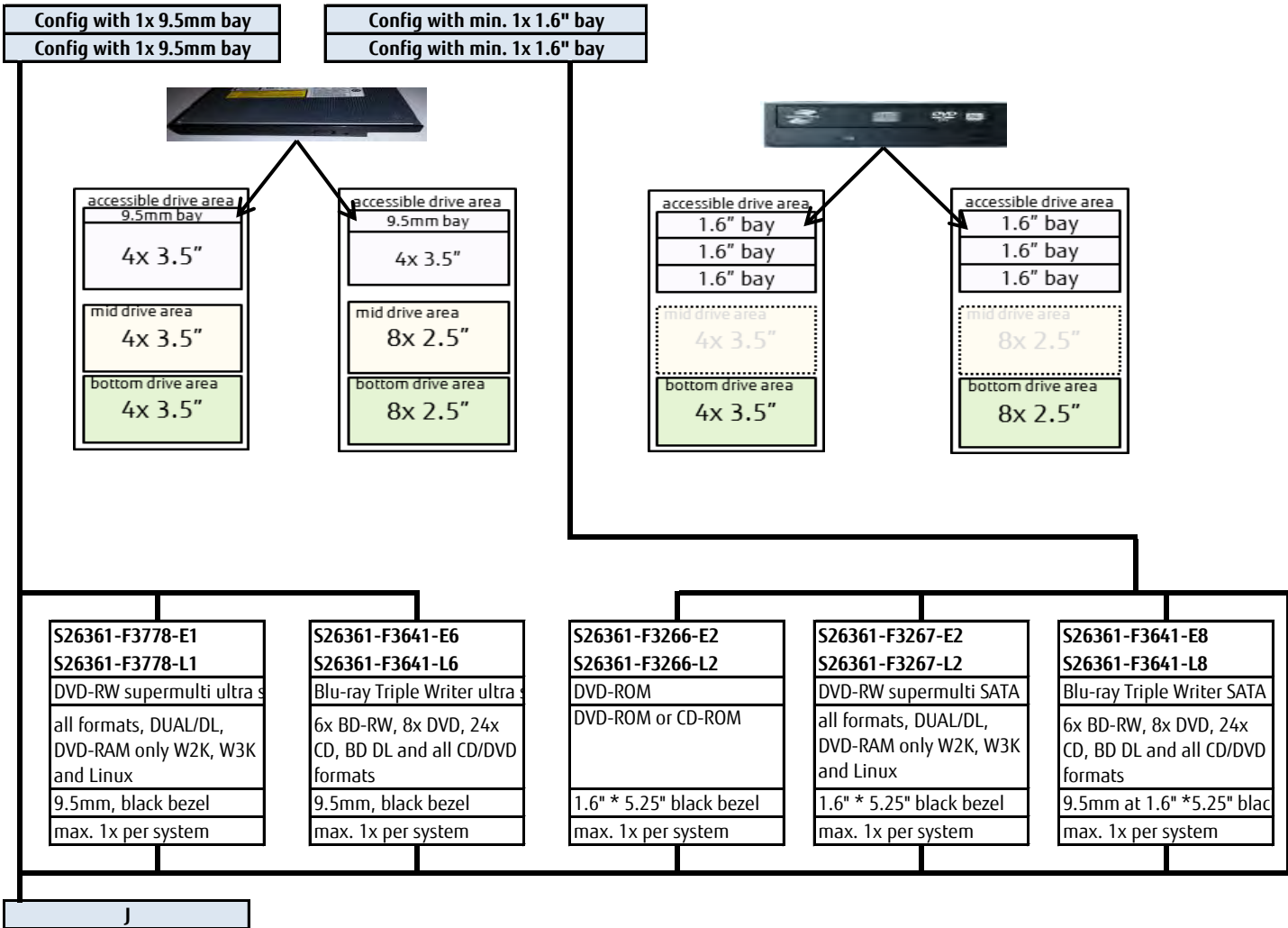
Expander configurations: Use PRAID EPxxx for optimal performance,
PRAID CP400i is not released for expander configurations

Advanced SW options: simultaneous operation of SafeStore + FastPath is supported
* It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality



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 9.5mm ...")



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. "!! 1x 9.5mm ...")

J
Config with min. 1x free 1.6" bay

| | | | | |
|--|--|----|------------------|-------------------|
| SAS HBA card for Internal LTO drives (for Base Unit -Vxxx, -Vyyy) | | | | |
| 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 |

| | | | | |
|--|---|----|-----------------|-----------------|
| LTO drives (Need to select one of following LTO drives together with SAS HBA) | | | | |
| LTO drives are not including tape drives. Cleaning Cartridge and Cables are included | | | | |
| LTO 5 tape drive (w/o tape) | 1.5TB, 140MB/s, SAS 2.0, 5.25 inch/HalfHeight | 1x | S26361-F3627-E1 | S26361-F3627-L1 |
| LTO 6 tape drive (w/o tape) | 2.5TB, 160MB/s, SAS 2.0, 5.25 inch/HalfHeight | 1x | S26361-F3787-E1 | S26361-F3787-L1 |
| LTO 7 tape drive (w/o tape) | 6.0TB, 300MB/s, SAS 2.0, 5.25 inch/HalfHeight | 1x | S26361-F5606-E1 | S26361-F5606-E1 |

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

| | | | | |
|---------------------|--|---|---|-------------------|
| RDX | | | | |
| RDX Cartridge | | | | |
| RDX Cartridge 500GB | | - | - | S26361-F3857-L500 |
| RDX Cartridge 1TB | | - | - | S26361-F3857-L600 |
| RDX Cartridge 2TB | | - | - | S26361-F3857-L700 |
| RDX Cartridge 3TB | | - | - | S26361-F3857-L800 |

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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>
 DWPD: Drive Writes Per Day over 5 years.
 SED (=Self Encrypting Drives) require either a RAID controller with ®SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.
 It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.

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

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

2.5" (SFF) SATA SSD

| SSD 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 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 | | | | | | |
|---|------------|------------------|---------------|-----|--------------------------|--------------------------|
| <i>Capacity</i> | <i>RPM</i> | <i>Interface</i> | <i>Sector</i> | | <i>order code E-part</i> | <i>order code L-part</i> |
| 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

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 | | | | | | | 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 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 | | 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 |
| 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 |
| 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 |

max. 12x - depending on base unit & configuration

| 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 | | Category | order code E-part | order code L-part |
| 240GB | M.2 | SATA 6Gb/s | | Boot | S26361-F5707-E240 | S26361-F5707-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 | 1.4 | Boot | S26361-F5706-E240 | S26361-F5706-L240 |
| 480GB | M.2 | SATA 6Gb/s | 1.4 | Boot | S26361-F5706-E480 | S26361-F5706-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 coredump partition on ESXi hosts. For more information, see the VMware knowledge base article at <http://kb.vmware.com/kb/2147881>.
max. 1x per Server; connector located on Motherboard (please see folder "description"). VMware ESXi is only supported.

2.5" PCIe-SSDs require a RAID Controller

2.5" (SFF) PCIe-SSD

RAID Controller : PRAID EP540i/580i

| PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray | | | | | | | |
|---|-------------------|------------------|------------------|-------------|--|--------------------------|--------------------------|
| based on Intel DC P4501 drives | | | | | | | |
| <i>Capacity</i> | <i>Formfactor</i> | <i>Interface</i> | <i>Endurance</i> | <i>DWPD</i> | | <i>order code E-part</i> | <i>order code L-part</i> |
| 500GB | 2.5" (SFF) | PCIe3.0 x4 | Read Intensive | 0.7 | | S26361-F5649-E50 | S26361-F5649-L50 |
| 1TB | 2.5" (SFF) | PCIe3.0 x4 | Read Intensive | 1.0 | | S26361-F5649-E100 | S26361-F5649-L100 |
| 2TB | 2.5" (SFF) | PCIe3.0 x4 | Read Intensive | 0.6 | | S26361-F5649-E200 | S26361-F5649-L200 |
| 4TB | 2.5" (SFF) | PCIe3.0 x4 | Read Intensive | 0.6 | | S26361-F5649-E400 | S26361-F5649-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 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, Marvell FastLinQ® QL41112HLRJ | S26361-F4068-E2 | S26361-F4068-L502 |
| PLAN EP QL41134 4x10GBASE-T | 2x | 4 port NIC with Universal RDMA, Marvell FastLinQ® QL41134HLRJ | 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-T4 4x10GBASE-T | 2x | 4 port NIC, Intel X710-T4 | 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, Marvell FastLinQ® QL41132HLCU | S26361-F4069-E2 | S26361-F4069-L502 |
| PLAN EP QL41134 4x10Gb SFP+ | 2x | 4 port NIC with Universal RDMA, Marvell FastLinQ® QL41134HLCU | S26361-F4069-E4 | S26361-F4069-L504 |
| PLAN EP X710-DA2 2x10Gb SFP+ | 2x | 2 port NIC, Intel X710-DA2 | S26361-F3640-E2 | S26361-F3640-L502 |

| | | | | |
|--|----------|---|--------------------|--------------------------------------|
| PLAN EP X710-DA4 4x10Gb SFP+ | 2x | 4 port NIC, Intel X710-DA4 | S26361-F3640-E4 | S26361-F3640-L504 |
| Optional, 10Gb SFP+ optical transceiver module, select one per cage. | | | | |
| Both brands (Finisar, Intel) are supported with all (Intel, Marvell) adapter brands. | | | | |
| SFP+ Optical Transceiver 10G Single Rate SR | 2x .. 4x | LC, MMF / SR SFP+ module, up to 400m, Finisar | S26361-F3986-E3 | S26361-F3986-L3 |
| SFP+ Optical Transceiver 10G Single Rate LR | 2x .. 4x | LC, SMF / LR SFP+ module, up to 10km, Finisar | S26361-F3986-E4 | S26361-F3986-L4 |
| SFP+ Optical Transceiver 10G/1G Dual Rate SR | 2x .. 4x | LC, MMF / SR SFP+ module, up to 400m, Intel | S26361-F3986-E5 | S26361-F3986-L5 |
| SFP+ Optical Transceiver 10G/1G Dual Rate LR | 2x .. 4x | LC, SMF / LR SFP+ module, up to 10km, Intel | S26361-F3986-E6 | S26361-F3986-L6 |
| "Virtual Connector" for Twinax cables | 2x .. 4x | Enablement for System Architect | V:TWX CONNECTOR-PY | |
| 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 | | 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

| | | | | |
|--|----|--|------------------------|--------------------------------------|
| 10/25Gb Converged Ethernet network adapters with SFP+/SFP28 cages. Adapter ships with empty cages. | | | | |
| 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 CNA with FCoE, iSCSI Offload, Universal RDMA, Marvell FastLinQ® QL41262HLCU | S26361-F4070-E2 | S26361-F4070-L502 |
| Optional, 10Gb SFP+ optical transceiver module, one per cage or port | | | | |
| SFP+ Optical Transceiver 10G Single Rate SR | 2x | LC, MMF / SR SFP+ module, up to 400m, Finisar | S26361-F3986-E3 | S26361-F3986-L3 |
| SFP+ Optical Transceiver 10G Single Rate LR | 2x | LC, SMF / LR SFP+ module, up to 10km, Finisar | S26361-F3986-E4 | S26361-F3986-L4 |
| SFP+ Optical Transceiver 10G/1G Dual Rate SR | 2x | LC, MMF / SR SFP+ module, up to 400m, Intel | S26361-F3986-E5 | S26361-F3986-L5 |
| SFP+ Optical Transceiver 10G/1G Dual Rate LR | 2x | LC, SMF / LR SFP+ module, up to 10km, Intel | 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 | |
| <i>Max. 2x SFP+, DAC, or Twinax Cable per adapter</i> | | | | |
| 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. Thus, test only and purchase from switch vendors. | | |
| 25G DAC - Cisco | 2x | | | |
| 25G DAC - Intel | 2x | | | |
| 25G AOC - Brocade | 2x | AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors. | | |
| 25G AOC - Cisco | 2x | | | |
| 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, Marvell FastLinQ® QL41212 | S26361-F4056-E2 | S26361-F4056-L502 |
| PLAN EP MCX4-LX 25Gb 2p SFP28 | 2x | 2 port NIC with RDMA: RoCE, Mellanox ConnectX4-LX | S26361-F4054-E2 | S26361-F4054-L502 |
| PLAN EP XXV710-DA2 2x25Gb | 2x | 2 Port NIC, Intel XXV710-DA2 | 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. Thus, test only and purchase from switch vendors. | | |
| 25G DAC - Cisco | 2x | | | |
| 25G DAC - Intel | 2x | | | |
| 25G AOC - Brocade | 2x | AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors. | | |
| 25G AOC - Cisco | 2x | | | |
| 25G AOC - Intel | 2x | | | |

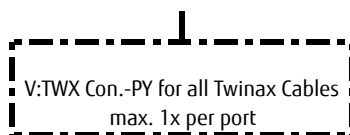
Max. 2x SFP28, 25G DAC, or 25G AOC per adapter

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, Finisar | S26361-F3986-E3 | S26361-F3986-L3 |
| SFP+ Optical Transceiver 10G Single Rate LR | 2x | LC, SMF / LR SFP+ module, up to 10km, Finisar | S26361-F3986-E4 | S26361-F3986-L4 |
| SFP+ Optical Transceiver 10G/1G Dual Rate SR | 2x | LC, MMF / SR SFP+ module, up to 400m, Intel | S26361-F3986-E5 | S26361-F3986-L5 |
| SFP+ Optical Transceiver 10G/1G Dual Rate LR | 2x | LC, SMF / LR SFP+ module, up to 10km, Intel | 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

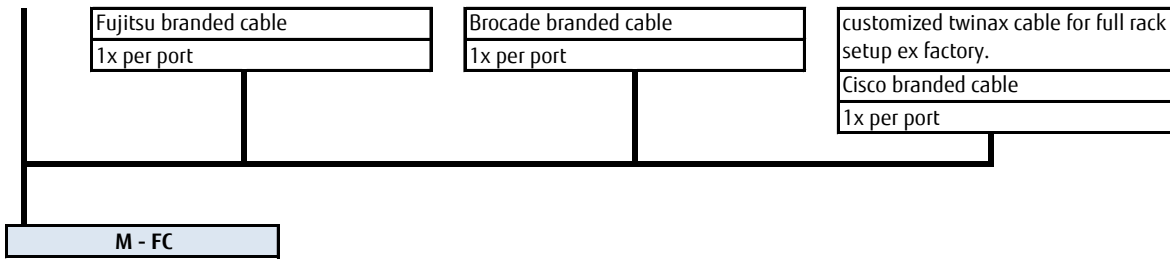


| | |
|---|-----|
| S26361-F3989-E600 *) | |
| S26361-F3989-L102 | 2m |
| S26361-F3989-L105 | 5m |
| S26361-F3989-L110 | 10m |
| SFP+ active twinax cable Fujitsu | |
| customized twinax cable for full rack setup ex factory. | |

| | |
|---|----|
| S26361-F3873-E500 *) | |
| S26361-F3873-L501 | 1m |
| S26361-F3873-L503 | 3m |
| S26361-F3873-L505 | 5m |
| SFP+ active twinax cable Brocade | |
| customized twinax cable for full rack setup ex factory. | |

| | |
|-----------------------------|-----|
| S26361-F4571-E500 *) | |
| S26361-F4571-L101 | 1m |
| S26361-F4571-L103 | 3m |
| S26361-F4571-L105 | 5m |
| S26361-F4571-L107 | 7m |
| S26361-F4571-L110 | 10m |
| SFP+ twinax cable Cisco | |

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



Chapter 11 - Communication / Fibre Channel Components

M-FC

Fibre Channel PCIe Adapters

32Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)

These components ship with optical transceiver modules equipped for all ports. Supported line rates: 32, 16, and 8Gbps.

| | | | | |
|-------------------------|----|---------------------------------------|-----------------|-------------------|
| PFC EP LPe32002 2x 32Gb | 2x | 2 ports, full height, Broadcom/Emulex | S26361-F4044-E2 | S26361-F4044-L502 |
| PFC EP LPe32000 1x 32Gb | 2x | 1 port, full height, Broadcom/Emulex | S26361-F4044-E1 | S26361-F4044-L501 |
| PFC EP QLE2742 2x 32Gb | 2x | 2 ports, full height, Cavium/Qlogic | S26361-F4043-E2 | S26361-F4043-L502 |
| PFC EP QLE2740 1x 32Gb | 2x | 1 port, full height, Cavium/Qlogic | S26361-F4043-E1 | S26361-F4043-L501 |

16Gb Fibre Channel adapter with LC interface for 50µm optical cables (OM4 or OM3)

These components ship with optical transceiver modules equipped for all ports. Supported line rates: 16, 8, and 4Gbps.

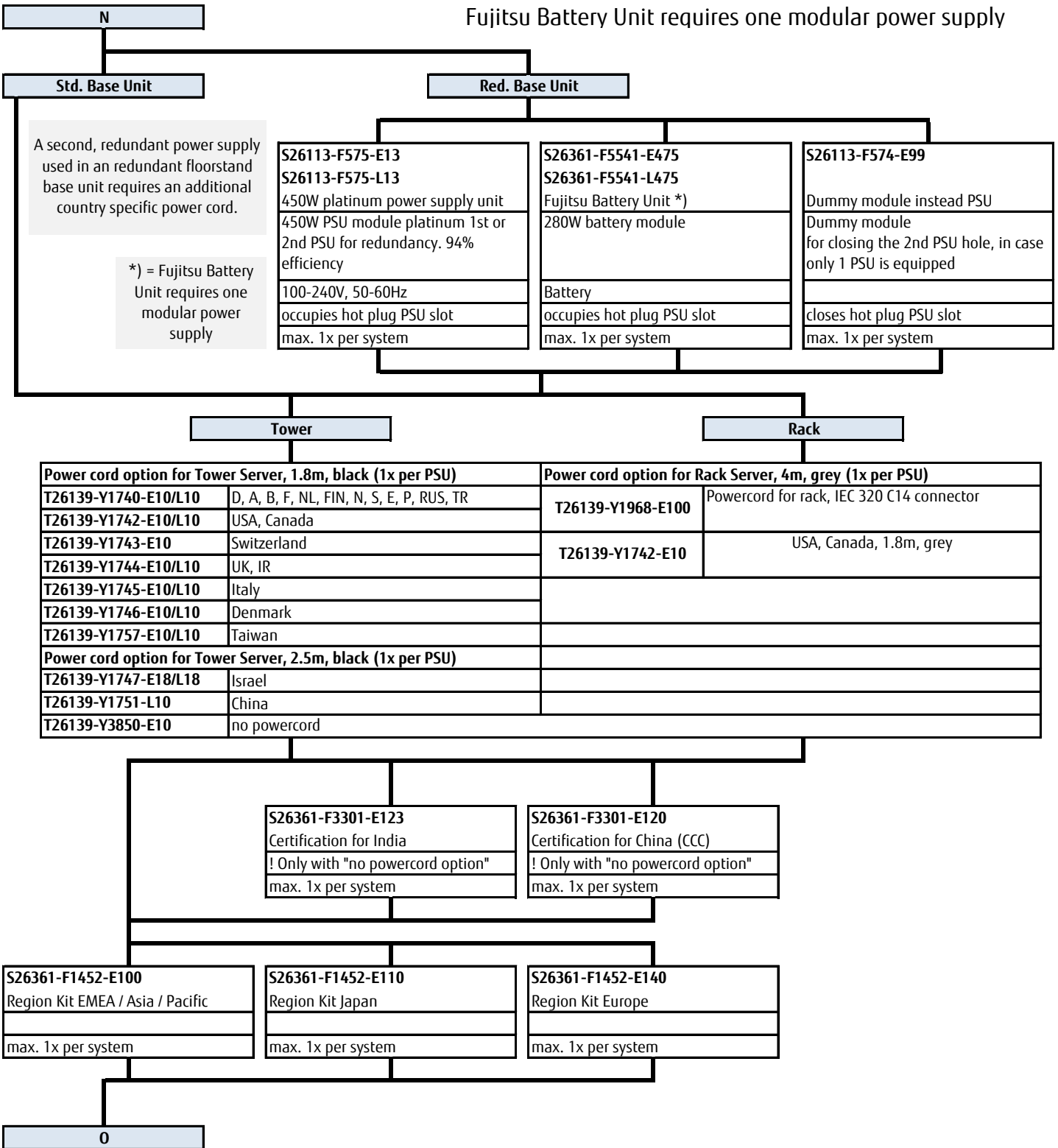
| | | | | |
|-------------------------|----|---------------------------------------|-----------------|-------------------|
| PFC EP LPe31002 2x 16Gb | 2x | 2 ports, full height, Broadcom/Emulex | S26361-F5596-E2 | S26361-F5596-L502 |
| PFC EP LPe31000 1x 16Gb | 2x | 1 port, full height, Broadcom/Emulex | S26361-F5596-E1 | S26361-F5596-L501 |
| PFC EP QLE2692 2x 16Gb | 2x | 2 ports, full height, Cavium/Qlogic | S26361-F5580-E2 | S26361-F5580-L502 |
| PFC EP QLE2690 1x 16Gb | 2x | 1 port, full height, Cavium/Qlogic | S26361-F5580-E1 | S26361-F5580-L501 |

max. 2 adapters per system (mixed configurations are supported)

N

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

Fujitsu Battery Unit requires one modular power supply



Chapter 15 - Accessories

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<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 |
|--|------------------|

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



Chapter 16 - others

I P

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

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
- 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: **PRIMERGY TX1330 M4 E-Star Fam1**
 non ENERGY STAR-configurationen will be labeld: **PRIMERGY TX1330 M4**

Q

Chapter 16 - others

P

| |
|---|
| S26361-F1790-E243 |
| S26361-F1790-L244 |
| iRMC S4 advanced pack / S5 alternatively |
| integrated remote Management controller activation key for graphical console redirection and remote media redirection |
| max. 1x per system |

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

| |
|--|
| S26361-F1790-E311 |
| embedded Lifecycle Management (eLCM) |
| Server Online Update |
| OS driver Update |
| Hardware firmware update |
| Server Offline Update |
| Hardware update via Update Manager Express |
| PrimeCollect |
| Autonomous creation of Primecollect archives |
| Creation and use of PrimeCollect archives over AIS connect |
| Custom Image (Jukebox function) |
| Automatic and manual download of CD and DVD Images |
| Automatic and manual start of CD and DVD Images |
| max. 1x per system |

| |
|---|
| Loose delivery |
| eLCM Activation Pack (Node Locked License) |
| BDL:ELCM-PACK |
| options contains: |
| - 16GB SD card |
| - Paper with TAN for Licensekey |

| |
|---|
| S26361-F3776-E340 |
| Cool-safe [®] Advanced Thermal design see right side |
| enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings |
| this setting can be activated ex factory only |
| max. 1x per system |

| |
|---|
| general rules for ATD40 and ATD45: |
| ATD40 and ATD45 use high performance cooling components |
| The ATD feature cannot operate with LTO drives. |
| They will be excluded from configurations with ATD40 or ATD45 |
| The ATD45 feature cannot operate with TFM or FBU. |
| They will be excluded from configurations with ATD45 |

| |
|---|
| S26361-F3776-E345 |
| Cool-safe [®] Advanced Thermal design see right side |
| enables the PRIMERGY Server to cope with temperatures from 5-45° in operating mode due to extended Fan settings |
| this setting can be activated ex factory only |
| max. 1x per system |

| |
|--|
| S26361-F5266-E1 |
| S26361-F5266-L1 |
| PCIe to PCI32 converter |
| for installing legacy PCI controller cards |
| max. 1x per system |

TPM 2.0 Module supported with Windows Server 2012 and successor. Currently not confirmed for SLES12 SP2 / RHEL 7.2 / ESXi 2016 / XenServer 7.

| |
|--------------------------|
| S26361-F3552-E101 |
| TPM 1.2 Module |
| TPM 1.2 module |
| max. 1x per system |

| |
|--------------------------|
| S26361-F3552-E100 |
| S26361-F3552-L100 |
| TPM 2.0 Module |
| TPM 2.0 module |
| max. 1x per system |

| |
|--|
| S26361-F3776-E10 |
| Silent TX configuration |
| This is possible in an office environment. Components which lead to a general increase of fan speed are excluded from the configuration. |
| this setting can be activated ex factory only |
| max. 1x per system |

You would like to add some customer specific solutions?

--> Please contact our made4you team (<mailto:customer.projects@ts.fujitsu.com>) for more customer specific solutions. E.g. Lifecycle Management, Customer specific Logos, component or BIOS fixes,

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Your Server is ready



| Date of change | Folder / order code / description | What has been changed / comment |
|----------------|--|--|
| 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/F5706-* | 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 Redundant Fan/PSU Upgrade Kit corrected |
| 11.04.2018 | HD-Cage / RAID | Update for NVMe |
| 24.04.2018 | base | typo in description text corrected |
| 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/F5673/F5589- * / | 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, L502 | 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 |
| 26.09.2018 | HD_SSD / S26361-F5588/F5589-E384/L384 | added SSD SATA MU 3.84TB |
| 26.09.2018 | HD_SSD / S26361-F5694/F5692-* | removed SSD SATA MU S4600 |
| 26.09.2018 | HD_SSD / PCIe SSD Low Power Read-Int. 2.5" | added PCIe SSD RI 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-F5584/F5635/F5638- | 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-F5588/F5589-E384/L384 | 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 | added the exclusion for HDD SATA 2.5" 7.2K 512e and PRAID EP |
| 19.03.2019 | RAID, HDD case: new partnumbers for NVMe RAID controllers: S26361-F4042-E24/28 | added new numbers and changed some comments |
| 17.05.2019 | HD_SSD / S26361-F5732/F5733- * / added | added the order codes for EMEIA only |
| 22.05.2019 | HD_SSD / S26361-F5732/F5733- * / removed | 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-F5571/F5624/F3904- | added HDD SAS/SATA 3.5" 7.2K 512e 14TB |
| 18.07.2019 | HD_SSD / S26361-F3904-E140/L140 / removed | 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-F5732/F5733- * / added | 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 | 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-F5732/F5733-* / removed | removed, because SA cannot possible the restriction of EMEA only |
| 20.12.2019 | HD_SSD / S26361-F5732-* / added | added for AS HCI configurations |