PRIMERGY TX2550 M4
Tower or 4U Rack server

Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator, abbreviations
	Description	System Description for easier understanding
1	Base	Describes base units of TX2550 M4
2		Describes rack mount kits and services
3	CPU	Order codes, information E5-2600v5 series processors
4	RAM	DDR4 System memory (RAM) and memory modes
5	GFX	Graphics-, Grid-cards, GPU and Xeon Co processors
6	HD_cage	HDD cage kits
7	RAID	SAS / RAID Controller and components
8	ODD	Optical disk drives (DVD, DVD-rw, Blu ray)
9	Backup	LTO drives & RDX drive
10	HD_SSD	Storage drives - PCIe SSD - SAS/SATA SSD & HDD
11	LAN	LAN Components
12	FC_IB	Fibre Channel Controller
13		Infiniband Controller
14	PSU	Power supply units, power cables, country specifics
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 botto

Chapter xx - description of chapter

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

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

For further information see:

Link to datasheet:
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

Abbreviations

SAS	Drives, RAID	Serial attached SCSI Device (HDD, SSD, LTO drives); SAS2.0 = 6GBit/s; SAS3.0 = 12GBit/s
SATA	Drives, RAID	Serial ATA (HDD, SSD) current SATA speed = 6GBit/s
HDD	Drives	Hard disk drive (Non volatile storage device), 2.5" (SFF) or 3.5" (LFF)
SSD	Drives	Solid state disk (Non volatile storage device), 2.5" (SFF)
SFF	Drives	small form factor (=2.5")
LFF	Drives	large form factor (=3.5")
CPU	Processor	central processing unit ("processor")
RAID	Drives, RAID	RAID 0 = max speed, RAID 1 = mirroring, RAID 5 = 1 out of x drives is spare
Spaces	OS	Microsoft spaces, optimized in Win2012 R2 offers software RAID and storage tiering
vSAN	OS	
storage tiering	RAID	offers optimized storage allocation (fast area for "hot data"; slower area for "cold data")
hot data	Drives	Data which are currently being processed
cold data	Drives	Data which are currently not processed (only stored)
ODD	Drives	optical disk drive (i.e. DVD-player, DVD-burner, Blu ray player, blu ray burner)
OS	operating system	OS=operating system - required for running, organize and administrating the server
E-Part	"Einbau-Part"	"e.g. S26361-F1234-**E**240" ordercode with "E" means it is either integrated into to Server (CPU, Mem, ..) or integrated in the shipping box /Keyboard, Mouse, ..)
L-Part	"Lose Lieferung-Part"	"e.g. S26361-F1234-**L**240" ordercode with "L" means, the part will be shipped with extra package, may be as well with extra shipment

PRIMERGY TX2550 M4 server offers 3 drive mounting areas:

upper drive area - optional

- for up to 3x 1.6" bays for optical disk drives or back-up drives
- or up to 4x 3.5" LFF HDD and 1x 9.5mm optical disk drive
- or up to 8x 2.5" SFF HDD/SSD/PCIe-SSD and 1x 1.6" bay for optical disk drive or back-up drive

combined bottom/mid drive area - optional

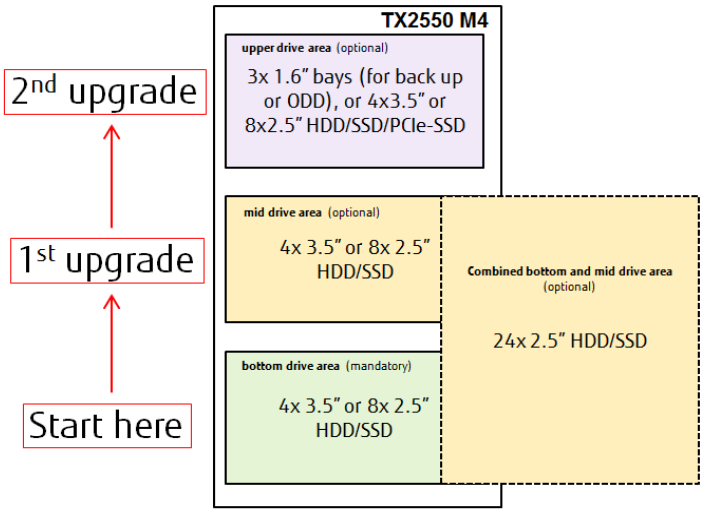
- for up to 24x 2.5" SFF HDD/SSD

mid drive area - optional

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

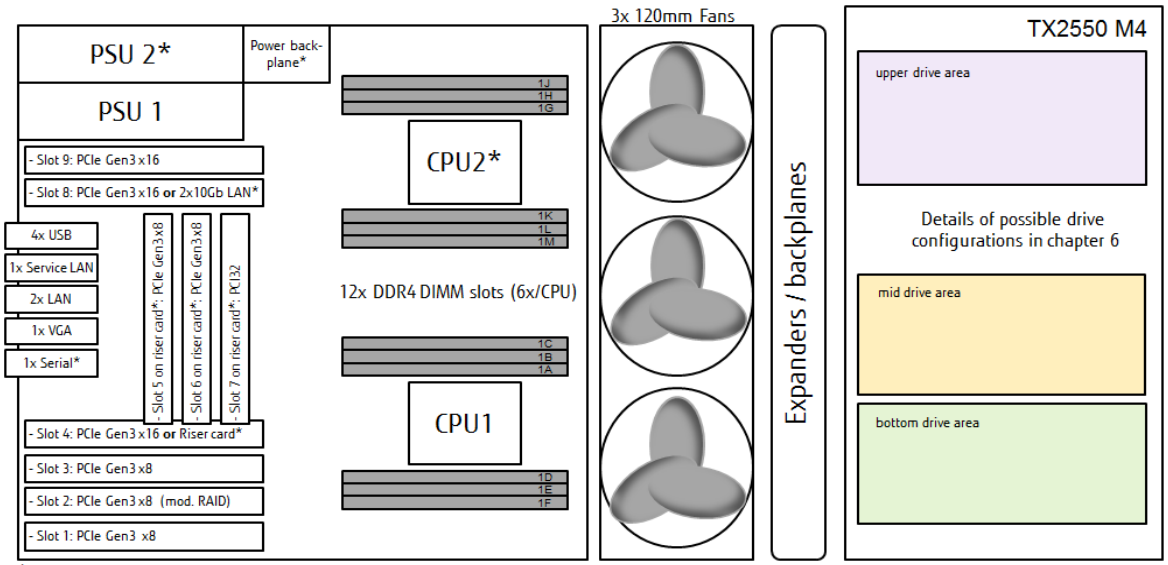
bottom drive area – mandatory

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



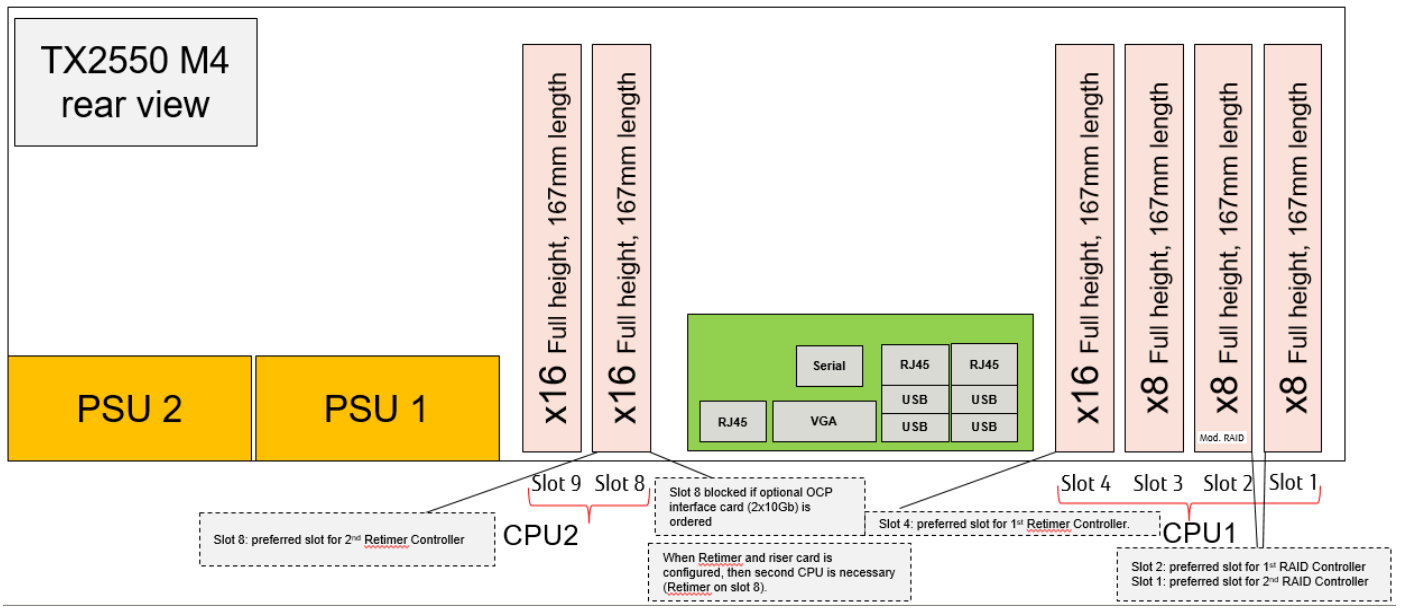
! All possible configurations in chapter 6: "HD_cage"

Schematic overview of the interior of PRIMERGY TX2550 M4

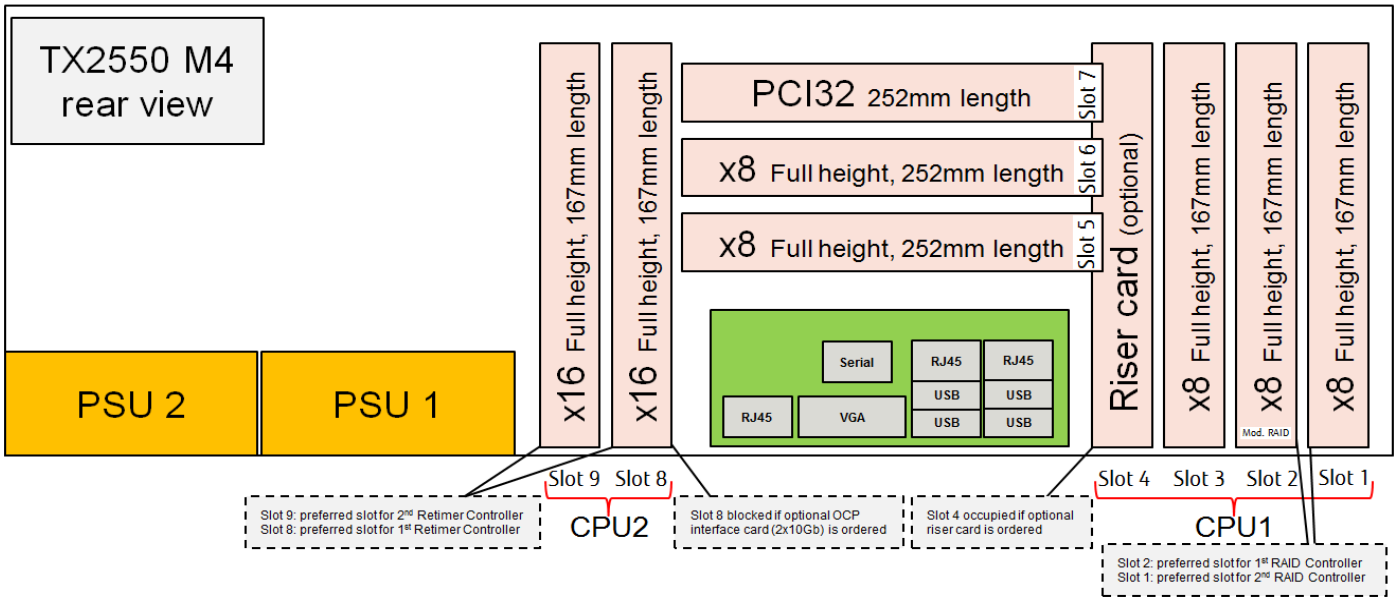


*Option.
- Slots 1,2,3,4, 5, 6 and 7 available with CPU1.
- Slots 8 and 9 available with CPU2.

Schematic overview of onboard PCIe slots on PRIMERGY TX2550 M4



Schematic overview of onboard PCIe slots and PCIe/PCI32 slots on optional riser card on PRIMERGY TX2550 M4



recommended components for TX2550 M4	#
Independant Mode installation	1x
PLAN EM Blind Panel OCP	1x
Region kit APAC/EMEA/India	1x
iRMC S4 advanced pack	1x
Modular PSU 450W platinum hot plug	2x

Chapter 1 - base unit

Start

Power supply units & cooling:
PRIMERGY TX2550 M4 offers bays for 2x (1x optional hot plug redundant) power supply units of 450W, 800W, 1.200W with up to 96% efficiency. Equipped with high performance, full height CPU heat pipes and 3x120mm high power fans (optional non-hot plug redundant or single hot plug red.) with optimized blades and fan control for silent and safe operation. Rack options ex factory or via retrofit upgrade with rack conversion kit.

Server Management:
iRMC S5 (integrated Remote Management Controller) on-board with dedicated Service LAN-port and integrated graphics controller. With onboard indicators and controls to easily highlight failed components via LEDs displayed during service even without mains connection by simply pressing the "indicate CSS" button. Optional ServerView Suite software incl. ServerView Installation Manager, Server View Remote Management and tools.

Platform:
Fujitsu Systemboard D3386 made in Germany based on Chipset Intel® C624, up to two Xeon EP2600 v5 series CPUs, two Intel® UltraPath Interconnect (Intel® UPI) point-to-point links and onboard RAID 0/1 6Gbit/s available for up to 8x SATA drives.

Slots: 6x PCIe slots are on board, with optional riser card up to 7x PCIe slots + 1x PCI32 slot are available:

> 4x PCIe slots onboard, full height, 167mm lengh, supported with first CPU:
- Slot 1: PCIe-Gen3 x8 (occupied in configurations with 2x RAID controllers; notched for installation of a x16 card)
- Slot 2: PCIe-Gen3 x8 (occupied in configurations with 1x RAID controller; notched for installation of a x16 card)
- Slot 3: PCIe-Gen3 x8 (notched for installation of a x16 card)
- Slot 4: PCIe-Gen3 x16 (occupied in configurations with optional riser card or retimer)

> Optional full height riser card on PCIe slot 4 offers 2x additional PCIe slots, full height, 252mm and 1x PCI32 slot, with first CPU:
- Slot 5: PCIe-Gen3 x8
- Slot 6: PCIe-Gen3 x8
- Slot 7: PCI-32Bit

> 2x PCIe slots onboard full height, 167mm lengh, supported with second CPU:
- Slot 8: PCIe-Gen3 x16 (occupied in configurations with 1x Retimer controller (when riser card (on slot 4) parallelly configured))
- Slot 9: PCIe-Gen3 x16

System RAM:
12x slots for DDR4-2666MHz RAM modules available (6x RAM modules per CPU). Memory speed depends on CPU and configuration.

LAN: 2x 1Gb LAN onboard; optional 2x 10Gb T or 2x 10Gb SFP+ interface card onboard with OCP carrier card (OCP carrier card blocks PCIe slot 8).

Interfaces at rear side
- 1x optional RS-232-C (serial port, 9 pin)
- 2x LAN Rj45 (additional 2x RJ45 optionally available)
- 1x service LAN RJ45 (1 Gbit)
- 1x VGA (15 pins)
- 4x USB 3.0

Interfaces at front side
- 2x USB 3.0 (no USB wakeup)

Interfaces internal
- 1x USB 2.0 for backup devices, 1x USB 3.0 (type A)
- 2x M.2 SATA/PCIe
- 1x connector for TPM, 1x microSD card slot

Choose one base unit

Tower base units, non-hp fans, 6x card slots

PY TX2550 M4 Tower, 4x3.5" basic
S26361-K1596-V108
Tower server, expandable to 8x3.5"; Incl. D3386 board, red. non-hp fans, 6x card slots, lockable front bezel.

PY TX2550 M4 Tower, 8x2.5" basic
S26361-K1596-V208
Tower server, not expandable; Incl. D3386 board, red. non-hp fans, 6x card slots, lockable front bezel.

PY TX2550 M4 Tower 4x3.5' basic and PY TX2550 M4 Tower 8x2.5' basic do not support ATD options!

Tower base units, hp fans, up to 8 card slots

PY TX2550 M4 Tower, 8x3.5"
S26361-K1596-V112
Tower server, expandable to 12x3.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, lockable front bezel.

PY TX2550 M4 Tower, 8x2.5"
S26361-K1596-V224
Tower server, expandable to 24x2.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, lockable front bezel.

PY TX2550 M4 Tower, 24x2.5"
S26361-K1596-V232
Tower server, expandable to 32x2.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, lockable front bezel.

Rack base units, hp fans, up to 8 card slots

PY TX2550 M4 Rack, 8x3.5"
S26361-K1596-V312
Rack server, expandable to 12x3.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, rack front bezel.

PY TX2550 M4 Rack, 8x2.5"
S26361-K1596-V424
Rack server, expandable to 24x2.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, rack front bezel.

PY TX2550 M4 Rack, 24x2.5"
S26361-K1596-V432
Rack server, expandable to 32x2.5"; Incl. D3386 board, hp/red. fans, up to 8x card slots, rack front bezel.

* Without SAS Expander for configurations with:
1x 16-channel PRAID controller EP540i, or
2x 8-channel HBA or mirrored RAID controllers.

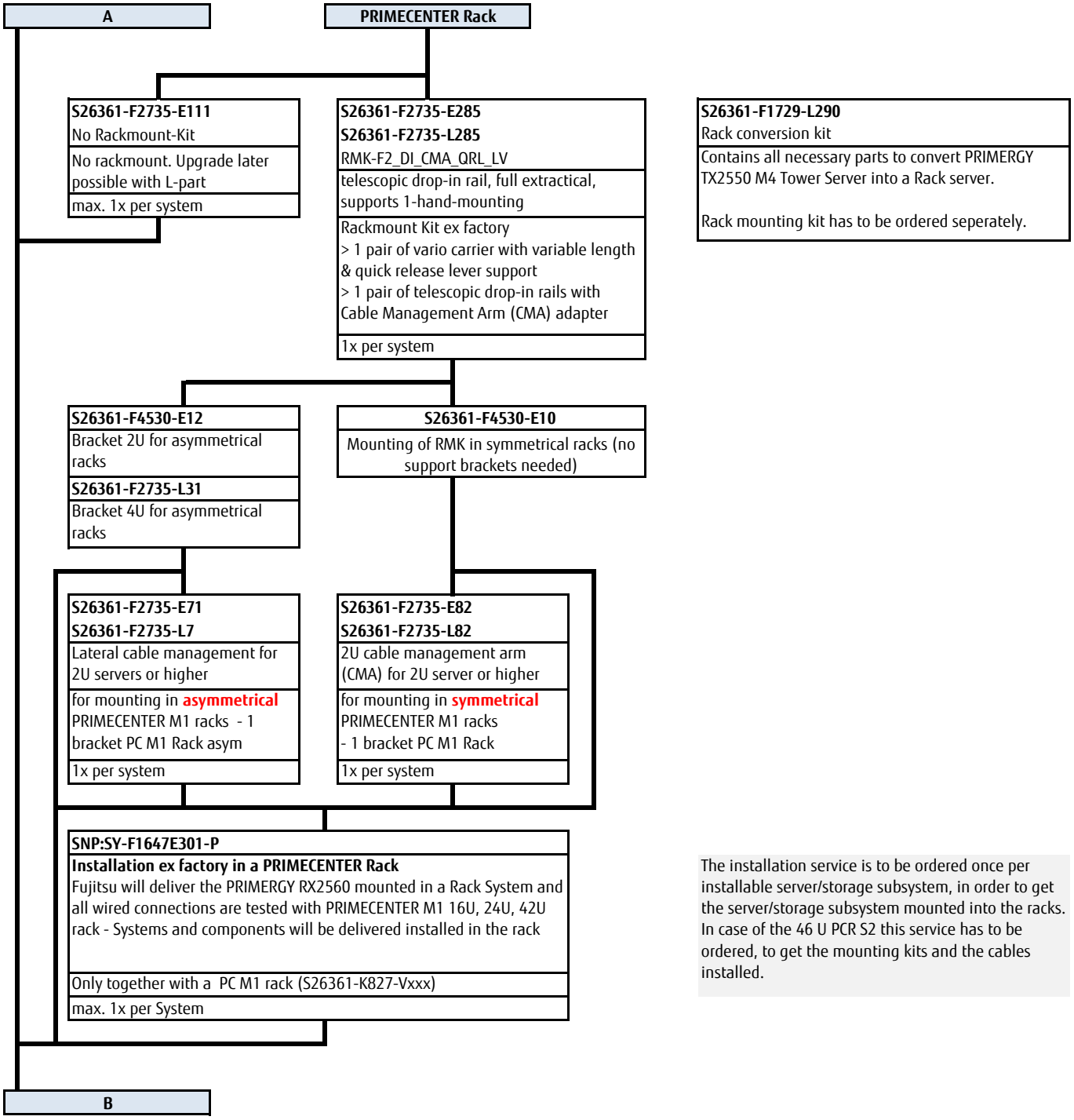
Base units for 16x2.5", without Expander*

PY TX2550 M4 Tower, 16x2.5"
S26361-K1596-V216
Tower server, not expandable; Incl. D3386 board, hp/red. fans, up to 8x card slots, lockable front bezel.

PY TX2550 M4 Rack, 16x2.5"
S26361-K1596-V416
Rack server, not expandable; Incl. D3386 board, hp/red. fans, up to 8x card slots, rack front bezel.

A | **A** | **PRIMECENTER Rack**

Chapter 2 - Rack architecture



Chapter 3 - CPU

B

There are 2 processor sockets available. Please configure 1 or 2 Processors.
>> All processors have to be the same type.
>> With one processor LOM, iRMC and 6x DIMM slots are available
>> With two processors all 12x DIMM slots are available.
>> To configure 2nd CPU an additional cooler kit is required.
>> Empty CPU slot have to be filled up with a CPU Dummy!

* HT = Hyper Threading

Xeon Bronze 3100 - Basic (Shelf 1)		
64-bit Intel Xeon processor supporting DDR4 @ 2133MHz & QPI Bus @ 9.6 GT/s		
Xeon Bronze 3104 6C nHT 1.7GHz 85W	**S26361-F4051-E104**	**S26361-F4051-L104**
Xeon Bronze 3106 8C nHT 1.7GHz 85W	**S26361-F4051-E106**	**S26361-F4051-L106**
Xeon Silver 4100 - Standard (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus 9.6 GT/s		
Xeon Silver 4108 8C 1.8GHz 85W	**S26361-F4051-E108**	**S26361-F4051-L108**
Xeon Silver 4110 8C 2.1GHz 85W	**S26361-F4051-E110**	**S26361-F4051-L110**
Xeon Silver 4114 10C 2.2GHz 85W	**S26361-F4051-E114**	**S26361-F4051-L114**
Xeon Silver 4116 12C 2.1GHz 85W	**S26361-F4051-E116**	**S26361-F4051-L116**
Xeon Silver 4100 - Frequency Optimized (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s		
Xeon Silver 4112 4C 2.6GHz 85W	**S26361-F4051-E212**	**S26361-F4051-L212**
Xeon Gold 5100 - Advanced (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5115 10C 2.4GHz 85W	**S26361-F4051-E115**	**S26361-F4051-L115**
Xeon Gold 5118 12C 2.3GHz 105W	**S26361-F4051-E118**	**S26361-F4051-L118**
Xeon Gold 5120 14C 2.2GHz 105W	**S26361-F4051-E120**	**S26361-F4051-L120**
Xeon Gold 5100 - Frequency Optimized (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5122 4C 3.6GHz 105W	**S26361-F4051-E222**	**S26361-F4051-L222**
Xeon Gold 6100 - Advanced (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 6130 16C 2.1GHz 125W	**S26361-F4051-E130**	**S26361-F4051-L130**
Xeon Gold 6140 18C 2.3GHz 140W	**S26361-F4051-E140**	**S26361-F4051-L140**
Xeon Gold 6138 20C 2.0GHz 125W	**S26361-F4051-E138**	**S26361-F4051-L138**
Xeon Gold 6148 20C 2.4GHz 150W	**S26361-F4051-E148**	**S26361-F4051-L148**
Xeon Gold 6152 22C2.1GHz 140W	**S26361-F4051-E152**	**S26361-F4051-L152**
Xeon Gold 6100 - Frequency Optimized (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 6128 6C 3.4GHz 115W	**S26361-F4051-E228**	**S26361-F4051-L228**
Xeon Gold 6134 8C 3.2GHz 130W	**S26361-F4051-E234**	**S26361-F4051-L234**
Xeon Gold 6126 12C 2.6GHz 125W	**S26361-F4051-E226**	**S26361-F4051-L226**
Xeon Gold 6136 12C 3.0GHz 150W	**S26361-F4051-E236**	**S26361-F4051-L236**
Xeon Gold 6132 14C 2.6GHz 140W	**S26361-F4051-E232**	**S26361-F4051-L232**
Xeon Gold 6142 16C 2.6GHz 150W	**S26361-F4051-E242**	**S26361-F4051-L242**
Xeon Platinum 8100 Advanced (Shelf 4)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2666 MHz & QPI Bus @ 10.4 GT/s		
Xeon Platinum 8153 16C 2.0GHz 125W	**S26361-F4051-E153**	**S26361-F4051-L153**
Xeon Platinum 8160 24C 2.1GHz 150W	**S26361-F4051-E160**	**S26361-F4051-L160**
Xeon Platinum 8164 26C 2.0GHz 150W	**S26361-F4051-E164**	**S26361-F4051-L164**
Xeon Silver 4100 - Embedded (Shelf 2)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 9.6 GT/s		
Xeon Silver 4114T 10C 2.2GHz 85W (only Special Release)	**S26361-F4051-E414**	**S26361-F4051-L414**
Xeon Gold 5100 - Embedded (Shelf 3)		
64-bit Intel Xeon processor supporting HT*, DDR4 @ 2400 MHz & QPI Bus @ 10.4 GT/s		
Xeon Gold 5119T 14C 1.9GHz 85W	**S26361-F4051-E419**	**S26361-F4051-L419**

C1

C1

Cooler Kit (see comment above; for upgrade please use according kit to the selected CPU)		
Cooling Kit 2nd CPU	**S26361-F3849-E100**	
Cooler Kit for 2nd CPU		**S26361-F4051-L850**

D

Chapter 4 - DDR4 System memory

D

Each CPU offers 6 Slots for DDR4 Memory Modules organised in 1 Banks and 6 Channels with 2 Memory Controllers (3 Channels each).
If you need more than 6 Slots you have to configure the 2nd CPU.
Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 2 different kinds of DDR4 Memory Modules available: RDIMM and RDIMM 3DS (also known as TSV)
Mix of RDIMM and RDIMM 3DS is under investigation (currently not allowed).

Supported memory capacities per CPU:
192 GB DDR4 RDIMM (6x 32GB 2Rx4)
384 GB DDR4 RDIMM 3DS (6x 64GB 4Rx4)
Supported memory capacities per System:
384 GB using RDIMM
768 GB using RDIMM 3DS technology with 64GB per module

The memory speed is independent from the configuration (1DPC) but restricted by the CPU SKU (max. 2.666 MT/s).
DDR4 memory is operated at 1.2V

Preview on NVDIMM support in 2018 (not POR for release in 2017)
Up to 4 NVDIMMs are supported per System (2 per CPU)

This leads to the following maximum memory capacity per System:
2-304 GB DDR4 with 4x 512GB NVDIMM (2.048GB) + 8x 32GB RDIMM (256GB)

S26361-F3694-E10	Independent Memory Mode
Independent Channel Mode allows all channels to be populated in any order. All channels must run at the same interface frequency. But each channel may run at different DIMM timings (RAS latency, CAS latency, and so forth). The slowest memory module defines to bus speed.	
Configuration: minimum 1 memory module per CPU, maximum 6 memory modules per CPU	

S26361-F3694-E2	Perfomance Memory Mode
BIOS preconfiguration for maximum Performance. Four identical memory modules will be equipped in each slot of each channel to achieve highest memory performance. Always a multiple of 6 identical modules must be configured per CPU. All six modules are active and full capacity can be used.	
Configuration: 6 memory modules per CPU	

S26361-F3694-E3	Mirror Channel Mode
BIOS preconfiguration for Mirror mode. Two or three identical memory modules are always equipped at one memory controller to use the mirrored channel mode. Half of the modules contain active data, the remaining modules contain mirrored data. See details below.	
Configuration: minimum 4 memory module or 8 memory module or 12 memory modules per CPU	

Registered Memory (RDIMM) with DDC (chipkill) and ECC support x8			
8GB (1x8GB) 2Rx8 DDR4-2666 R ECC	S26361-F4026-E118	S26361-F4026-L118	only special release
16GB (1x16GB) 2Rx8 DDR4-2666 R ECC	S26361-F4026-E116	S26361-F4026-L116	only special release
Registered Memory (RDIMM) with DDC (chipkill) and ECC support x4			
8GB (1x8GB) 1Rx4 DDR4-2666 R ECC	S26361-F4026-E208	S26361-F4026-L208	
16GB (1x16GB) 2Rx4 DDR4-2666 R ECC	S26361-F4026-E226	S26361-F4026-L226	only special release
16GB (1x16GB) 1Rx4 DDR4-2666 R ECC	S26361-F4026-E216	S26361-F4026-L216	
32GB (1x32GB) 2Rx4 DDR4-2666 R ECC	S26361-F4026-E232	S26361-F4026-L232	
Registered Memory (RDIMM) 3DS with DDC (chipkill) and ECC support			
64GB (1x64GB) 4Rx4 DDR4-2666 3DS ECC	S26361-F4026-E364	S26361-F4026-L364	
Registered Memory (RDIMM) LR with DDC (chipkill) and ECC support			
64GB (1x64GB) 4Rx4 DDR4-2666 LR ECC	S26361-F4026-E464	S26361-F4026-L464	
NVDIMM 2666 (will be launched in 2018; not POR for first release)			
128GB (1x128GB) DDR4-2666 NV ECC	TBD	TBD	
256GB (1x256GB) DDR4-2666 NV ECC	TBD	TBD	
512GB (1x512GB) DDR4-2666 NV ECC	TBD	TBD	

E

Detailed infomation

Mode	Configuration	RDIMM	RDIMM LRDIMM	Use case, advantage
		x8	x4	
SDDC (chipkill) support	any	no	yes	supports detecting multi-bit errors
Independant channel mode	1, 2 or 3 Modules per Bank	yes	yes	offers max. flexibility, upgradeability, capacity
Mirrored channel mode *)	4 identical Modules / Bank	no	yes	offers maximum security
Performance mode	4 identical Modules / Bank	yes	yes	offers maximum performance and capacity

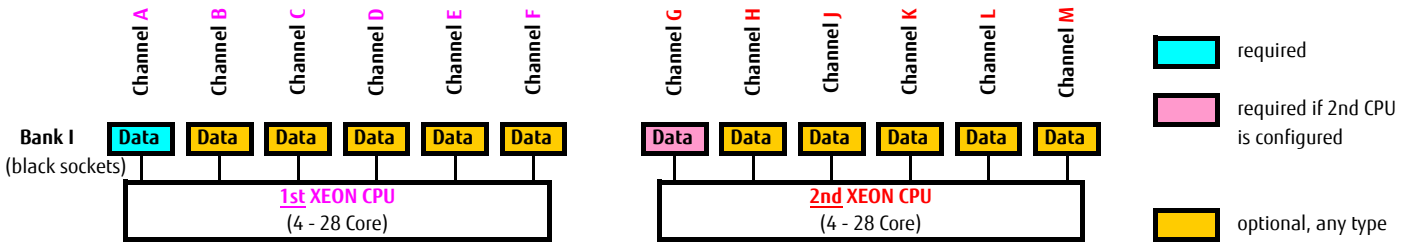
*) For the delivery ex factory the system will be prepared with dedicated BIOS setting.

Capacity	Configuration	RDIMM	LRDIMM	Notes
Min. Memory per CPU	1 Module / CPU	1x8GB	1x64GB	with one CPU
Max. Memory per CPU	6 Modules / CPU	6x32GB	6x64GB	with one CPU
Max. Memory per System	12 Modules / System	384GB	768GB	if second CPU is configured

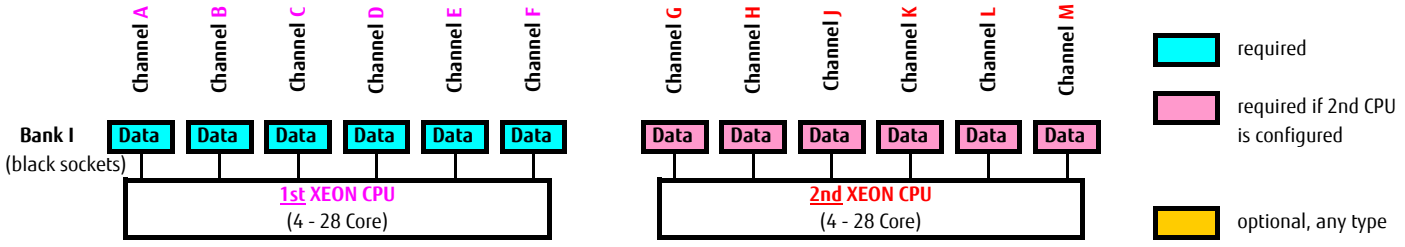
The memory sockets on the Systemboards are color coded

Bank I	black sockets	**Bank II**	blue sockets

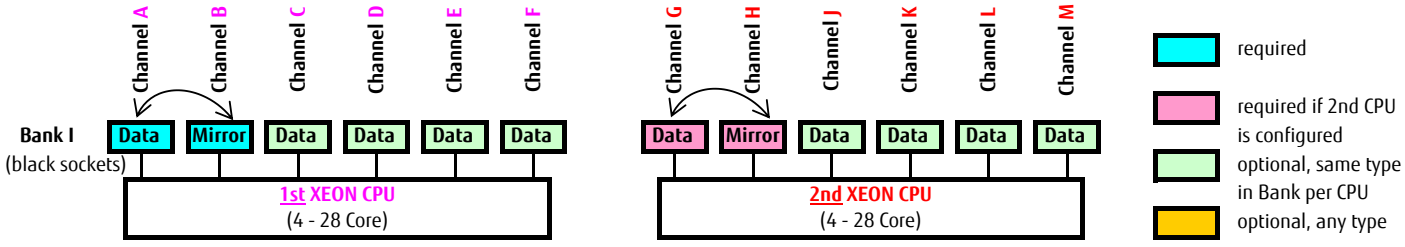
Independant channel mode



Performance Channel Mode

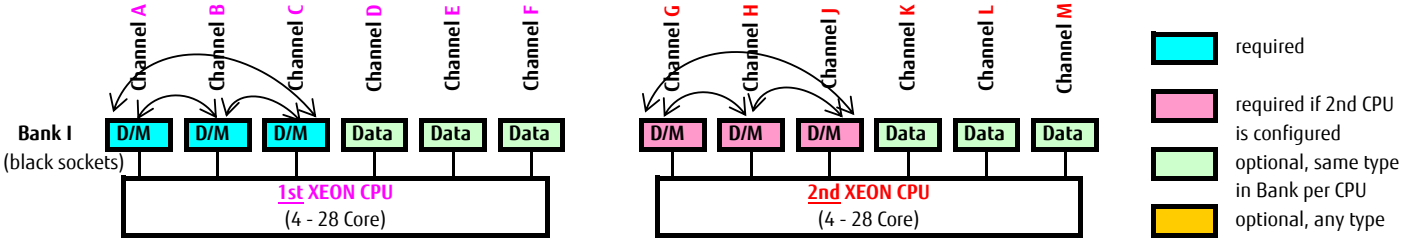


Mirror Channel Mode (2 DIMMS per CPU)



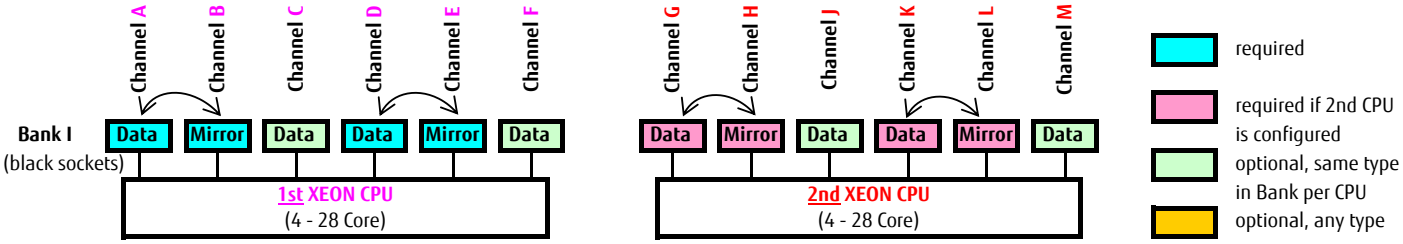
Mirrored Channel Mode (2 DIMMs per CPU) requires identical modules on channel A & B (1st CPU) or channel G & H (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 2 identical modules has to be ordered.

Mirror Channel Mode (3 DIMMS per CPU)



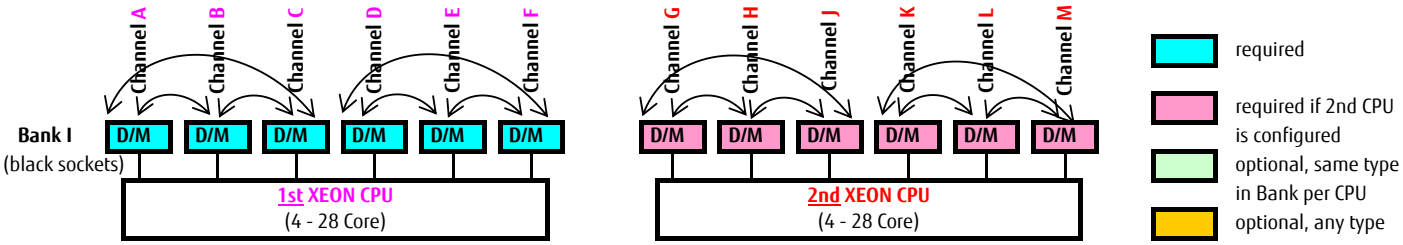
Mirrored Channel Mode (3 DIMMs per CPU) requires identical modules on channel A, B & C (1st CPU) or channel G, H & J (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 3 identical modules has to be ordered.

Mirror Channel Mode (4 DIMMS per CPU)



Mirrored Channel Mode (4 DIMMs per CPU) requires identical modules on channel A, B, D & E (1st CPU) or channel G, H, K & L (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 4 identical modules has to be ordered.

Mirror Channel Mode (6 DIMMS per CPU)



Mirrored Channel Mode requires identical modules on channel A, B, C, D, E, F (1st CPU) or channel G, H, J, K, L and M (2nd CPU) 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory. If this mode is used, a multiple of 6 identical modules has to be ordered.

Chapter 5 - Graphics cards

E

„on special release only!“

S26361-F2748-E538 **S26361-F2748-L538**
PGRA CP NVS 1GB VGA PCIe x16
NVIDIA NVS315 1024 MB PCIe-x16
Connectors: 1x LFH 59, cable kit for 2x DVI or 2x VGA cable kits included
Dual head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
occupies slot 3 (or 8)
max. 1x per system

The high end optional NVIDIA NVS315 graphic card offers dual head operation and full 3D video support.
The cables for either two times DVI-I or VGA connections are included.
Remote Video direction via iRMC must be disabled.
This PCIe-x16 card can also be installed in a PCIe-x4, x8 or standard x16 slot.

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 cablse must be ordered seperately
Triple head + professional 2-D + 3-D supported for Windows OS native driver support for Linux OS
occupies slot 3 (or 8)
full height bracket
max. 1x per system

The high end optional NVIDIA Quadro P400 graphic card offers triple head operation and full 3D video support.
The cables kit is not included. It is necessary to order cable kit.
Remote Video direction via iRMC must be disabled.

S26361-F4066-E11 **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

Intel PAC A10 FPGA Card

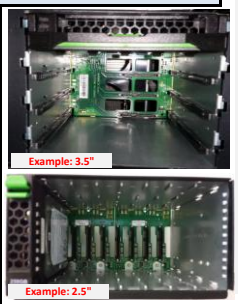
Will be available beginning of September 2018

S26361-F4067-E1 **S26361-F4067-L1**
Intel PAC Arria 10 GX FPGA
Intel Programmable Acceleration Card with Arria 10 GX FPGA.
power cables from PSU need to be ordered separately. 800W or higher PSU is recommended
INTEL PAC W/A10 FPGA, PCIe-x16(Mechanical) FPGA card, 1x SFP+ w/ 4x 10GbE or 40GbE support
max. 2x per system

F

Chapter 6 - HD drive cage

F



HD drive cage is a metal box providing bays for 3.5" HDDs or 2.5" HDDs/SSDs/PCIe-SSDs. Choose out of the following HD cage upgrade kits, depending on pre-selected TX2550 M4 base unit and the targeted configuration. Each upgrade kit contains all relevant parts such as metal cage, backplane, cables and mounting material.

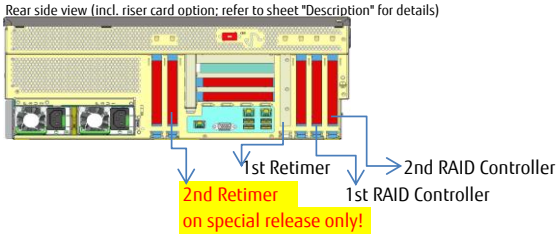
Upgrade kits for the upper drive area require the completion of the mid drive area (except for PCIeSSDs).

Up to 3x 1.6x5.25" bays are available in the upper drive area for an ODD and/or backup drive configurations; in the 12x3.5" configuration, a 9.5mm bay is available for a slim ODD. Refer to sections "ODD" and "backup" for details.

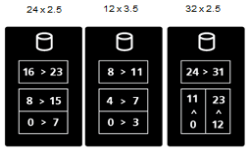
Upgrade kits are available either ex factory (E-codes) or for retrofit upgrade (L-codes).
RAID configurations are recommendations; refer to section "RAID" for available options.

Preferred slots for controller assignement

Rear side view (incl. riser card option; refer to sheet "Description" for details)



General drive numbering scheme



TX2550 M4 front views of expandable base units and corresponding HD drive cage options:

Base unit

PY TX2550 M4 Tower, 4x3.5"	
S26361-K1596-V108	

RAID configuration	HBA- or RAID-Controller or onboard RAID. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

HD cage upgrades

S26361-F4047-E11 S26361-F4047-L11	Upgrade kit for 4x3.5" HDD, mounted in the mid drive area
RAID configuration	8-channel HBA- or RAID-Controller. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

Base unit

PY TX2550 M4 Tower, 8x3.5"	
S26361-K1596-V112	

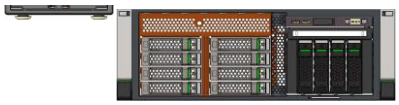
PY TX2550 M4 Rack, 8x3.5"	
S26361-K1596-V312	

24x SAS Expander included in Upgrade kit for 4x3.5" HDD

RAID configuration	8-channel HBA- or RAID-Controller. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

HD cage upgrades

S26361-F4047-E12 S26361-F4047-L12	Upgrade kit for 4x3.5" HDD, mounted in the upper drive area, incl. 24x SAS Expander
S26361-F3900-E125 S26361-F3900-L125	Upgrade kit for 2x non-hp 2.5" HDD/SSD, mounted in the left side of the bottom/mid HD cages (drives not visible/accessible from the outside); requires UG-kit for 4x3.5" HDD
RAID configuration	8-channel HBA- or RAID-Controller. Refer to section "RAID" for options.
ODD / Backup	1x 9.5mm bay is available for a slim optical drive in the upper drive area.



Base unit

PY TX2550 M4 Tower, 8x2.5"	PY TX2550 M4 Rack, 8x2.5"	
S26361-K1596-V224	S26361-K1596-V424	***24x SAS Expander included in Upgrade kit for 8x2.5" HDD***

RAID configuration	HBA- or RAID-Controller. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

HD cage upgrades

S26361-F4047-E21 S26361-F4047-L21	Upgrade kit for 8x2.5" HDD/SSD, mounted in the mid drive area, incl. 24x SAS Expander
RAID configuration	8-channel HBA- or RAID-Controller. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

S26361-F4047-E22 S26361-F4047-L22	Upgrade kit for 8x2.5" HDD/SSD, mounted in the upper drive area. This option requires S26361-F4047-E21 / S26361-F4047-L21.
S26361-F4047-E31 S26361-F4047-L31	Upgrade kit for 4x2.5" PCIe-SSD, mounted in the upper drive area. This option requires 1x Retimer (or EP5xx-series PRAID controller on special release only!).
S26361-F4047-E32 S26361-F4047-L32	Upgrade kit for 8x2.5" PCIe-SSD, mounted in the upper drive area. This option requires 2x Retimer or EP540i-series PRAID controller. Retimer requires 2x CPU. -L32 requires S26361-F4047-E31 or -L31. Only special release.
RAID configuration	HBA- or RAID- or Retimer-Controllers. Refer to section "RAID" for options.
ODD / Backup	1x 1.6x5.25" bay is available for an optical or backup drive in the upper drive area.

Base unit

PY TX2550 M4 Tower, 24x2.5"	PY TX2550 M4 Rack, 24x2.5"	
S26361-K1596-V232	S26361-K1596-V432	***Including 32x SAS Expander!***

RAID configuration	3x 8-channel HBA- or RAID-Controllers. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

HD cage upgrades

S26361-F4047-E22 S26361-F4047-L22	Upgrade kit for 8x2.5" HDD/SSD, mounted in the upper drive area. This option requires S26361-F4047-E21 / S26361-F4047-L21.
S26361-F4047-E31 S26361-F4047-L31	Upgrade kit for 4x2.5" PCIe-SSD, mounted in the upper drive area. This option requires 1x Retimer (or EP5xx-series PRAID controller on special release only!).
S26361-F4047-E32 S26361-F4047-L32	Upgrade kit for 8x2.5" PCIe-SSD, mounted in the upper drive area. This option requires 2x Retimer or EP540i-series PRAID controllers. Retimer requires 2x CPU. -L32 requires S26361-F4047-E31 or -L31. Only special release.
RAID configuration	8-channel HBA- or RAID-Controllers, plus 1x or 2x Retimer-Controllers. Refer to section "RAID" for options.

ODD / Backup	1x 1.6x5.25" bay is available for an optical or backup drive in the upper drive area.

TX2550 M4 front views of Not expandable base units (no HD drive cage options available):

Base unit

PY TX2550 M4 Tower, 8x2.5"
S26361-K1596-V208

RAID configuration	8-channel HBA- or RAID-Controller or onboard RAID. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

Base unit

PY TX2550 M4 Tower, 16x2.5"	**PY TX2550 M4 Rack, 16x2.5"**
S26361-K1596-V216	S26361-K1596-V416

RAID configuration	2x 8-channel HBA- or mirrored RAID-Controllers or 1x 16-channel PRAID controller EP540i. Refer to section "RAID" for options.
ODD / Backup	3x 1.6x5.25" bays are available for an optical and/or backup drives in the upper drive area.

You did not find your preffered drive cage configuration in this list of popular bundles?
Please contact our made4you team (mailto: customer.projects@ts.fujitsu.com) for customer specific solutions, or visit us: https://partners.ts.fujitsu.com/com/order-supply/General%20information/made4you

G

Chapter 7 - SAS / RAID Controller

F

for combination and max number of controllers please see folder base / chassis; max number of some controllers can vary with base units with 6x card slots

onboard SATA controller with SW-RAID

onboard controller for SATA HDD or SSD drives					
8 ports, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1	1x	**onboard, included**

intenal HBA and RAID controller, no 2nd Level cache

operation of expander with PRAID CP400i is not supported

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	2x	**S26361-F3842-E1**	**S26361-F3842-L501**
PSAS CP400i HBA SAS Contr.	No Cache	HBA + RAID 0, 1	2x	**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					

Mirrored mode with 2 HBA or RAID cards as soon as available.
Available only for S26361-K1596-V216 / V416.

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	2x	**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 accelleration			2x	**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		2x	**S26361-F5243-E100**	**S26361-F5243-L100**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**
PRAID EP420i RAID Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F5243-E12**	**S26361-F5243-L12**
PRAID EP420i for SafeStore R. Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**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 accelleration			2x	**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		2x	**S26361-F5243-E200**	**S26361-F5243-L200**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**

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. FH	2GB Cache	RAID 0,1,1E,10,5,50,6,60	2x	**S26361-F4042-E2**	**S26361-F4042-L502**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, supports up to 8 devices without expander or **(NVME support for EP520i on special release for this controller in this system)** includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP 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, supports up to 16 devices without expander or **16 ports** 8Gb/s NVMe PCIe, supports up to 4 x4 NVMe devices without expander (on special release only!) includes Fastpath and SafeStore Advanced SW-Licence requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

maximum number of internal RAID + HBA (See also pictures on folder base / HDD cage):
standard config: max. 1
for -V216 / V416 only: max. 2 (mirrored mode)

FBU cannot be combined with Advanced Thermal design.
up to **2x FBU** can be integrated per System

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

Advanced SW options:
simultanous operation of SafeStore or CacheCade + FastPath or is supported,
simultanous operation of Safestore + CacheCade is not supported
* It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality

G

external SAS controller

HBA controller for ext. drives SAS, SATA HDD or SSD drives					
PSAS CP400e HBA SAS Contr. FH	No Cache	HBA, no RAID	2x	**S26361-F3845-E1**	**S26361-F3845-L501**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) requires 1x LP PCIe 3.0 x8 (int.) slot, based on LSI SAS3008					

external SAS, RAID controller with 2nd Level cache 2GB

RAID / SAS, SATA controllers for external drives with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options					
PRAID EP420e RAID Contr. FH	2GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F3847-E2**	**S26361-F3847-L502**
PRAID EP420i for SafeStore FH	2GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F3847-E4**	**S26361-F3847-L504**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) 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 accelleration			4x	**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		2x	**S26361-F5243-E200**	**S26361-F5243-L200**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F5243-E155**	**S26361-F5243-L115**

external SAS, RAID controller with 2nd Level cache 4GB

Available on special release

RAID / SAS, SATA controllers for external drives with Cache and opt. Flash Backup Unit					
PRAID EP540e RAID Contr. FH	4GB Cache	RAID 0,1,1E,10,5,50,6,60	4x	**S26361-F4063-E4**	**S26361-F4063-L504**
8 ports 3, 6 & 12Gb/s SAS/SATA HDD/ SSD, 2x SFF8644 (external Mini-SAS HD) includes Fastpath and SafeStore Advanced SW-Licence requires 1x FH PCIe 3.0 x8 (int.) slot, based on LSI SAS3516					
optional Flash Backup Unit (FBU), Transportable Flash module (TFM) is already included					
FBU Option for PRAID EP5xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 55cm lenght			2x	**S26361-F4042-E155**	**S26361-F4042-L110**

internal controllers for PCIe SSD SFF (2,5" NVMe PCIe) drives, no HW-RAID

retimer controller for internal 2,5" NVMe SSD PCIe SSD SFF (2,5" NVMe PCIe)					
PPCI CP x16 retimer	No Cache	No HW-RAID	**1x**	**S26361-F4048-E1**	**tbd**
No HW RAID, No Cache, simple route-through incl. Signal enhancement; device management by INTEL VMD					
divides PCIe3.0 x16 lanes into 4x x4 lanes , supports up to 4x 2.5" PCIe-SSD SFF					
requires 1x LP PCIe 3.0 x16 (int.) slot					

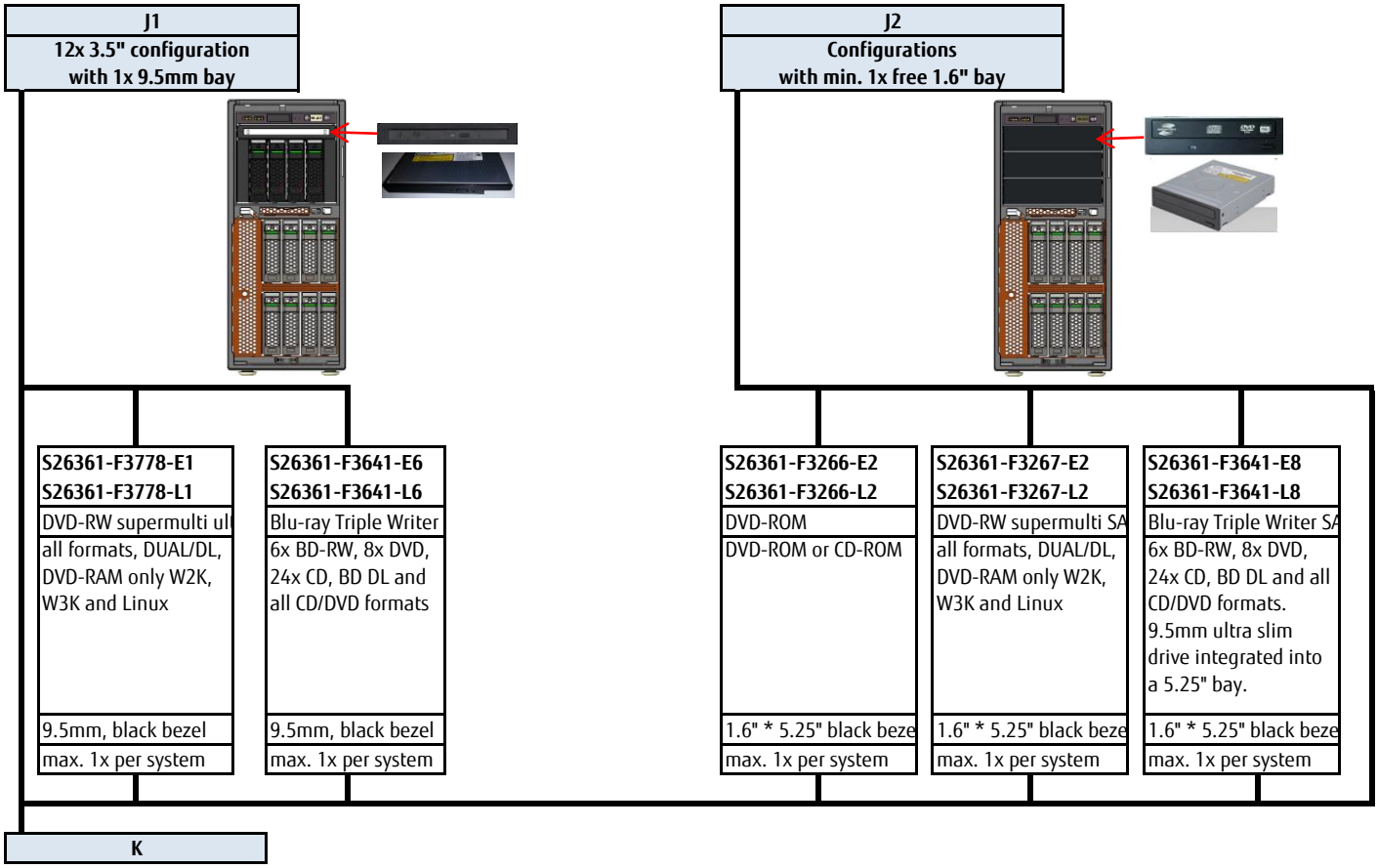
This PCIe card comes in a full height profile PCIe form factor The E-order code contains the fitting cable (length) per each system .
The **L-order code** contains all cables for the related system. The switch must be installed in PCIe Slot 4. Otherwise the datarate should be decrease.

For Expander configurations PRAID EPxxxi are optimal for performance, PRAID CP400i is not released for expander configurations, max. 8 drives supported

H

Chapter 8 - ODD optical disk drives

PRIMERGY TX2550 M4 offers up to 3x 1.6" bays (located in the upper side of Tower- / right side of Rack-server) for various ODD's and/or backup drives. Depending on the HDD drive cage configuration there may be some or all of 1.6" bays already occupied; please find the number of available bays in the chapter 6, "HD-cage", incl. further configuration details.



Chapter 9 - backup drives

With most configurations the TX2550 M4 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 ...")

K
Config. with min. 1x free 1.6" bay

SAS HBA card for Internal LTO drives				
8 ports 3, 6 & 12Gb/s SAS HBA Controller				
PSAS CP400i SAS Contr.	based on LSI SAS3008 / for LTO drives.	1x	**S26361-F3842-E20**	**S26361-F3842-L502**

LTO drives **(Need to select one of LTO drives togheter 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				
RDX drive is not including Cartridge.				
RDX Drive cage (w/o cartriges)	USB 3.0, 5.25 inch / Half Height	1x	**S26361-F3750-E4**	**S26361-F3750-L4**

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

L

Chapter 10 - storage drives

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:
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.

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2.5" (SFF) SAS and SATA SSD

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5710-E400	S26361-F5710-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5710-E800	S26361-F5710-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5710-E160	S26361-F5710-L160
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5711-E400	S26361-F5711-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5711-E800	S26361-F5711-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5711-E160	S26361-F5711-L160

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SAS 2.5" Write Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E400	S26361-F5608-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E800	S26361-F5608-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10		S26361-F5608-E160	S26361-F5608-L160
400GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E400	S26361-F5611-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E800	S26361-F5611-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Write Intensive	10	SED	S26361-F5611-E160	S26361-F5611-L160

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5713-E400	S26361-F5713-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5713-E800	S26361-F5713-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5713-E160	S26361-F5713-L160
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5713-E320	S26361-F5713-L320
6.4TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5713-E640	S26361-F5713-L640

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SAS 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
400GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E400	S26361-F5666-L400
800GB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E800	S26361-F5666-L800
1.6TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	3		S26361-F5666-E160	S26361-F5666-L160
3.2TB	2.5" (SFF)	SAS 12Gb/s	Mixed Use	2.3		S26361-F5666-E320	S26361-F5666-L320

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E480	S26361-F5715-L480
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E960	S26361-F5715-L960
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E192	S26361-F5715-L192
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E384	S26361-F5715-L384
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E768	S26361-F5715-L768
15.36TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5715-E153	S26361-F5715-L153

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SAS 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
480GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E480	S26361-F5670-L480
960GB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E960	S26361-F5670-L960
1.92TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E192	S26361-F5670-L192
3.84TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	1		S26361-F5670-E384	S26361-F5670-L384
7.68TB	2.5" (SFF)	SAS 12Gb/s	Read Intensive	0.9		S26361-F5670-E768	S26361-F5670-L768

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

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)	SAS 12Gb/s	Write Intensive	3.6		S26361-F5588-E384	S26361-F5588-L384

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SATA 2.5" Mixed Use S4600 (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.1		S26361-F5694-E240	S26361-F5694-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.3		S26361-F5694-E480	S26361-F5694-L480
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0		S26361-F5694-E960	S26361-F5694-L960
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0		S26361-F5694-E192	S26361-F5694-L192

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E240	S26361-F5632-L240
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E480	S26361-F5632-L480
800GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E800	S26361-F5632-L800
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E960	S26361-F5632-L960
1.2TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E120	S26361-F5632-L120
1.6TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		S26361-F5632-E160	S26361-F5632-L160

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

SSD SATA 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

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. 8x, 16x, 24x or 32x - depending on base unit & configuration

M1

M1

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**
450GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E545**	**S26361-F5531-L545**
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. 8x, 16x, 24x or 32x - 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**
900GB	10 000	SAS 12Gb/s	512n		**S26361-F5550-E190**	**S26361-F5550-L190**
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. 8x, 16x, 24x or 32x - 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**
900GB	10 000	SAS 12Gb/s	512e		**S26361-F5543-E190**	**S26361-F5543-L190**
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. 8x, 16x, 24x or 32x - depending on base unit & configuration

HDD SAS 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	SAS 12Gb/s	512n		**S26361-F5600-E100**	**S26361-F5600-L100**
2TB	7 200	SAS 12Gb/s	512n		**S26361-F5600-E200**	**S26361-F5600-L200**

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

HDD SAS 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	SAS 12Gb/s	512e		**S26361-F5573-E100**	**S26361-F5573-L100**
2TB	7 200	SAS 12Gb/s	512e		**S26361-F5573-E200**	**S26361-F5573-L200**

max. 8x, 16x, 24x or 32x - depending on base unit & configuration

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. 8x, 16x, 24x or 32x - 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. 8x, 16x, 24x or 32x - depending on base unit & configuration

2.5" NON hot plug Drives for internal bays

2.5" SSD for NON hot plug bays (internal)

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-F5677-E240**	**S26361-F5677-L240**
240GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.1		**S26361-F5696-E240**	**S26361-F5696-L240**
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5633-E240**	**S26361-F5633-L240**
240GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.4		**S26361-F5703-E240**	**S26361-F5703-L240**

2x non-hot-plug HDD/SSD are available only with 12x3.5" configurations and will be mounted in the left side of the bottom/mid HD-cages in the interior of the server; This option offers higher security i.e. for boot HDD/SSD, since only accessible if the Server housing is opened.

2.5" HDD for NON hot plug bays (internal)

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	10 000	SAS 12Gb/s	512n		**S26361-F5642-E130**	**S26361-F5642-L130**
1.0TB	7 200	SATA 6Gb/s	512n		**S26361-F3957-E100**	**S26361-F3957-L100**

2x non-hot-plug HDD/SSD are available only with 12x3.5" configurations and will be mounted in the left side of the bottom/mid HD-cages in the interior of the server; This option offers higher security i.e. for boot HDD/SSD, since only accessible if the Server housing is opened.

M2

M2

3.5" (LFF) SATA SSD

SSD SATA 3.5" Mixed Use (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

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	2.5" (SFF)	SAS 12Gb/s	Write Intensive	3.6		**S26361-F5589-E384**	**S26361-F5589-L384**

max. 4x, 8x, or 12x - depending on base unit & configuration

SSD SATA 3.5" Mixed Use S4600 (LFF) 2.5" SSD Enterprise with 3.5" hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.1		**S26361-F5692-E240**	**S26361-F5692-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.3		**S26361-F5692-E480**	**S26361-F5692-L480**
960GB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5692-E960**	**S26361-F5692-L960**
1.92TB	3.5" (LFF)	SATA 6Gb/s	Mixed Use	3.0		**S26361-F5692-E192**	**S26361-F5692-L192**

max. 4x, 8x, or 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

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
240GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E240**	**S26361-F5630-L240**
480GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E480**	**S26361-F5630-L480**
800GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E800**	**S26361-F5630-L800**
960GB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E960**	**S26361-F5630-L960**
1.2TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E120**	**S26361-F5630-L120**
1.6TB	3.5" (LFF)	SATA 6Gb/s	Read Intensive	1		**S26361-F5630-E160**	**S26361-F5630-L160**

max. 4x, 8x, or 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

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. 4x, 8x, or 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**
450GB	15 000	SAS 12Gb/s	512n		**S26361-F5532-E545**	**S26361-F5532-L545**
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. 4x, 8x, or 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. 4x, 8x, or 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. 4x, 8x, or 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	512n		**S26361-F5626-E100**	**S26361-F5626-L100**
2TB	7 200	SAS 12Gb/s	512n		**S26361-F5626-E200**	**S26361-F5626-L200**
4TB	7 200	SAS 12Gb/s	512n		**S26361-F5626-E400**	**S26361-F5626-L400**

max. 4x, 8x, or 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
2TB	7 200	SAS 12Gb/s	512e		**S26361-F5635-E200**	**S26361-F5635-L200**
4TB	7 200	SAS 12Gb/s	512e		**S26361-F5635-E400**	**S26361-F5635-L400**
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**
8TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E800**	**S26361-F5571-L800**
10TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E100**	**S26361-F5571-L100**
12TB	7 200	SAS 12Gb/s	512e		**S26361-F5571-E120**	**S26361-F5571-L120**
6TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5584-E600**	**S26361-F5584-L600**
10TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5624-E100**	**S26361-F5624-L100**
12TB	7 200	SAS 12Gb/s	512e	SED	**S26361-F5624-E120**	**S26361-F5624-L120**

max. 4x, 8x, or 12x - depending on base unit & configuration

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with hot plug/hot replace tray

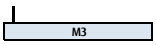
Capacity	RPM	Interface	Sector		order code E-part	order code L-part
1TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E100**	**S26361-F5636-L100**
2TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E200**	**S26361-F5636-L200**
4TB	7 200	SATA 6Gb/s	512n		**S26361-F5636-E400**	**S26361-F5636-L400**

max. 4x, 8x, or 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**
8TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E800**	**S26361-F3904-L800**
10TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E100**	**S26361-F3904-L100**
12TB	7 200	SATA 6Gb/s	512e		**S26361-F3904-E120**	**S26361-F3904-L120**

max. 4x, 8x, or 12x - depending on base unit & configuration


M3

M3

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
150GB	M.2	SATA 6Gb/s		Boot		**S26361-F5655-E150**	**S26361-F5655-L150**
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
150GB	M.2	SATA 6Gb/s	1.5	Boot		**S26361-F5656-E150**	**S26361-F5656-L150**
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 M.2

Dual microSD, PDUAL AP200 and M.2 drive cannot be mixed

PDUAL AP200, dual M.2 for booting, non hot-plug

Capacity	Formfactor	Interface		Category		order code E-part	order code L-part
n/a	AIC	PCIe		Boot	FH	**S26361-F4064-E1**	**S26361-F4064-L501**

PDUAL AP200 is a carrier card for 2x M.2 SATA modules, which is connected to the controller PSAS CP400i and offers RAID1 with 2x M.2 modules.
"PDUAL AP200 + 2x M.2 modules + PSAS CP400i" is designed for use as a Hardware-mirrored (RAID1) boot device for Hypervisor,
which cannot be supported by M.2 via the onboard chipset Software RAID.
Supported RAID level : RAID1 only, Supported M.2 Modules : SSD SATA M.2 240GB (S26361-F5706-E240/L240 or S26361-F5707-E240/L240 for
VMware ESXi), 2x M.2 modules (S26361-F5706-E240/L240 or S26361-F5707-E240/L240) and additional PSAS CP400i (S26361-F3842-E22/L502)
need to be ordered separately. An existing PSAS CP400i for data drives cannot support simultaneously the M.2 Boot media with PDUAL AP200.
A separate PSAS CP400i for PDUAL AP200 is required to support a separation for boot and data.
max. 1x per Server

Dual microSD

Dual microSD and RDX Drive cage (S26361-F3750-E4) cannot be mixed

Dual microSD, PDUAL AP200 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" (SFF) PCIe-SSD

2.5" PCIe-SSDs require a RAID Controller or PCIe retimer card.
RAID Controller : PRAID EP520i/540i/580i
PCIe retimer : PPCI CP x16 retimer

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray
based on **Intel DC P4610** drives

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	4.1		**S26361-F5737-E160**	**S26361-F5737-L160**
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.7		**S26361-F5737-E320**	**S26361-F5737-L320**
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.1		**S26361-F5737-E640**	**S26361-F5737-L640**

max. 4x - depending on base unit & configuration

PCIe-SSD 2.5" Mixed Use (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
1.6TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.0		**S26361-F5648-E160**	**S26361-F5648-L160**
3.2TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.1		**S26361-F5648-E320**	**S26361-F5648-L320**
6.4TB	2.5" (SFF)	PCIe3.0 x4	Mixed Use	3.2		**S26361-F5648-E640**	**S26361-F5648-L640**

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

PCIe-SSD Low Power 2.5" Read Intensive (SFF) Enterprise with hot plug/hot replace tray

Capacity	Formfactor	Interface	Endurance	DWPD		order code E-part	order code L-part
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

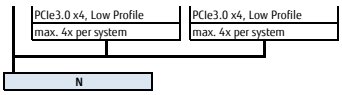
AIC PCIe-SSD

PCIe-SSD (occupies one PCIe slot)

S26361-F5650-L200 **S26361-F5650-E200**	**S26361-F5650-L400** **S26361-F5650-E400**
PACC EP P4600 AIC 2TB	PACC EP P4600 AIC 4TB
P4600 series, NVMe 3.0 DWPD PCIe3.0 x4, Low Profile	P4600 series, NVMe 3.1 DWPD PCIe3.0 x4, Low Profile
max. 6x per system	max. 6x per system

PCIe-SSD (occupies one PCIe slot)

S26361-F5697-L375 **S26361-F5697-E375**	**S26361-F5697-L750** **S26361-F5697-E750**
PACC EP P4800X AIC 375GB	PACC EP P4800X AIC 750GB
P4800X series, NVMe 30 DWPD	P4800X series, NVMe 30 DWPD


PCIe3.0 x4, Low Profile
max. 4x per system
PCIe3.0 x4, Low Profile
max. 4x per system
N

N

Chapter 11 - LAN Components

Default: 2x RJ45 1GbE ports on systemboard

max number of some controllers can vary with base units with 6x card slots

Dynamic LoM OCP PHY interface cards

Interface card to provide the external connectors for on-board LAN			
PLAN EM 2x 10Gb T OCP interface Intel	2x RJ45 plug for 10GBASE-T	S26361-F3953-E210	S26361-F3953-L210
PLAN EM 2x 10GB SFP+ OCP interface Intel	2x SFP+ cages for twinax or modules for SFP modules and cables see below	S26361-F3953-E211	S26361-F3953-L211
max. 1x per system; OCP cards block PCIe slot 8;			

OCP carrier card for retrofit upgrade with OCP interface cards
S26361-F3953-L21

1Gb Ethernet network components

1Gb Ethernet controller with RJ45 interface (1000BASE-T)				
PLAN CP 2x1Gbit Cu Intel I350-T2	6x	2 port, Intel	S26361-F4610-E2	S26361-F4610-L502
PLAN CP 4x1Gbit Cu Intel I350-T4	6x	4 port, Intel	S26361-F4610-E4	S26361-F4610-L504
max. 6 Controller 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	6x	2 port NIC with Universal RDMA, **Cavium** QL41112HLRJ	S26361-F4068-E2	S26361-F4068-L502
PLAN EP QL41134 4x10GBASE-T	6x	**4 port** NIC with Universal RDMA, **Cavium** QL41134HLRJ	S26361-F4068-E4	S26361-F4068-L504
PLAN EP X550-T2 2x10GBASE-T	6x	2 port NIC, **Intel** X550-T2	S26361-F3948-E2	S26361-F3948-L502
PLAN EP X710-T4 4x10GBASE-T	4x	**4 port** NIC, **Intel** X710-T4	S26361-F3948-E4	S26361-F3948-L504
PLAN EP OCe14102 2x 10GBase-T	6x	2 port NIC, **Emulex**	S26361-F5557-E1	S26361-F5557-L501
max. 6 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 Cavium 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+	6x	2 port NIC with Universal RDMA, **Cavium** QL41132HLCU	S26361-F4069-E2	S26361-F4069-L502
PLAN EP X710-DA2 2x10Gb SFP+	4x	2 port NIC, **Intel** X710-DA2	S26361-F3640-E2	S26361-F3640-L502
PLAN EP X710-DA4 4x10Gb SFP+	4x	4 port NIC, **Intel** X710-DA4	S26361-F3640-E4	S26361-F3640-L504
Optional, 10Gb SFP+ optical transceiver module, select one per cage				
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 seected at rack factory installation.	S26361-F3989-E600	see table at the botton of this page
SFP+ active Twinax Cable Brocade	2x .. 4x		S26361-F3873-E500	
Max. 2x SFP+, DAC, or Twinax Cable per 2 port adapter. Max. 4x SFP+, DAC, or Twinax Cable per 4 port adapter.				
max. 6 adapters per server system				

10Gb Ethernet controller with SFP+ interface (for SFP+ modules or twinax cables, Emulex)				
PLAN EP OCe14102 2x10Gb	6x	2 port NIC, **Emulex**	**S26361-F5536-E2**	**S26361-F5536-L502**
PCNA EP OCe14102 2x 10Gb	6x	2 port **CNA** with FCoE, **Emulex**	**S26361-F5250-E1**	**S26361-F5250-L501**
optional 10Gb SFP+ module with LC connector for Emulex controller				
PCNA SFP+ MMF Modul OCe14102	2x	MMF / SR SFP+ module, up to 400m, **Emulex**	**S26361-F5250-E110**	**S26361-F5250-E110**
Twinax Anschlussplatz Primergy	2x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x	customized cable length (best fitting cable length is defined during rack installation at the factory)	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
SFP+ passive Twinax Cable Cisco	2x		**S26361-F4571-E500**	
max. 2x SFP+ or Twinax Cable per controller				
max. 6 Controller per 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	6x	2 port **CNA** with FCoE, iSCSI Offload, Universal RDMA, **Cavium** 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 seected at rack factory installation.	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
Max. 2x SFP+, DAC, or Twinax Cable per adapter				
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				
max. 6x 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	6x	2 port NIC with Universal RDMA: iWARP & RoCE, **Cavium** QL41212	**S26361-F4056-E2**	**S26361-F4056-L502**
PLAN EP MCX4-LX 25Gb 2p SFP28	6x	2 port NIC with RDMA: RoCE, **Mellanox** ConnectX4-LX	**S26361-F4054-E2**	**S26361-F4054-L502**
PLAN EP XXV710-DA2 2x25Gb	6x	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 seected at rack factory installation.	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
Max. 2x SFP+, DAC, or Twinax Cable per adapter				
max. 6x adapters per system				

25/10Gb Ethernet controller with 2x SFP28 cages (requires twinax cables or optical transceiver SFP+ modules)				
Dual speed support, auto-sense - supports 25Gbps and 10Gbps line rate per-port. **Note: This is not the most current product. The successor product is PLAN EP QL41212.**				
PLAN EP QL45212 2x25Gb	2x	Dual Port NIC, RoCE RDMA, WS2016, **Cavium**	**S26361-F5622-E2**	**S26361-F5622-L502**
optional 25Gb SFP28 module with LC connector for Fujitsu / Intel / Qlogic based controller				
virtual connector for twinax cables	2x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP28 Twinax Cable Fujitsu	2x	customized cable length (best fitting cable length is defined during rack installation at the factory)	**future**	**future**
SFP28 Twinax Cable Brocade	2x		**future**	
max. 2x SFP28 Twinax Cable per controller				
optional 10Gb SFP+ module with LC connector for Fujitsu / Intel / Qlogic based controller				
SFP+ Transceiver Module MMF 10GbE LC	2x	MMF / SR SFP+ module, up to 400m	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Transceiver Module SMF 10GbE LC	2x	SMF / LR SFP+ module, up to 10km	**S26361-F3986-E4**	**S26361-F3986-L4**
virtual connector for twinax cables	2x	virtual connector for twinax cables	**V:TWX CONNECTOR-PY**	
SFP+ active Twinax Cable Fujitsu	2x	customized cable length (best fitting cable length is defined during rack installation at the factory)	**S26361-F3989-E600**	**see table at the botton of this page**
SFP+ active Twinax Cable Brocade	2x		**S26361-F3873-E500**	
max. 2x SFP+ or Twinax Cable per controller				
max. 2 Controller per system				

40/10Gb Ethernet network components

40Gb Ethernet controller with QSFP cage (requires DAC, AOC cables or optical transceiver QSFP modules)				
Supports 40Gbps line rate per-port				
PLAN EP MCX4-EN 40Gb 2p QSFP FH	6x	Dual Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4053-E2**	**S26361-F4053-L502**
Optional, 40Gb QSFP Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 40Gb 2p QSFP				
QSFP 40G SR4L MPO 850nm 30m MC2210411-SR4L	2x	MMF / SR4L QSFP module, Mellanox. Max reach supported 30m	**S26361-F4053-E701**	**S26361-F4053-L701**
QSFP 40G SR4 MPO 850nm 150m MC2210411-SR4	2x	MMF / SR4 QSFP module, Mellanox. Max reach supported 150m	**S26361-F4053-E702**	**S26361-F4053-L702**
"Virtual Connector" for DAC/AOC cables	2x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-40**	
40G DAC - Cisco	2x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
40G DAC - Mellanox	2x			
40G AOC - Cisco	2x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
40G AOC - Mellanox	2x			
rmax. 2x QSFP or DAC, AOC per PLAN EP MCX4-EN 40Gb 2p QSFP				
max. 6x PLAN EP MCX4-EN 40Gb 2p QSFP				

100Gb Ethernet network components

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)				
Supports 100Gbps line rate				
PLAN EP QL45611 100Gb 1p QSFP28 FH	6x	Single Port NIC, RoCE RDMA, **Cavium**	**S26361-F4057-E1**	**S26361-F4057-L501**
Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP QL45611 100Gb 1p QSFP28				

	QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	**S26361-F4052-E701**	**S26361-F4052-L701**
	QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	**S26361-F4052-E801**	**S26361-F4052-L801**
	"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-100**	
	100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
	100G DAC - Mellanox	1x			
	100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
	100G AOC - Mellanox	1x			
	Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP QL45611 100Gb 1p QSFP28				
max. 6x PLAN EP QL45611 100Gb 1p QSFP28					

100Gb Ethernet controller with 1x QSFP28 cage (requires twinax cables or optical transceiver QSFP28 modules)					
Supports 100Gbps line rate					
PLAN EP MCX4-EN 100Gb 1p QSFP28 FH		6x	Single Port NIC, RoCE RDMA, **Mellanox**	**S26361-F4052-E1**	**S26361-F4052-L501**
	Optional, 100Gb QSFP28 Optical Transceiver module with MPO connector for PLAN EP MCX4-EN 100Gb 1p QSFP28				
	QSFP28 100G SR4 MPO 850nm 100m MMA1B00-C100D	1x	MMF / SR4 QSFP28 module, Mellanox. Max reach supported 100m	**S26361-F4052-E701**	**S26361-F4052-L701**
	QSFP28 100G PSM4 1310nm 500m MMS1C10-CM	1x	MMF / SR QSFP28 module, Mellanox. Max reach supported 500m	**S26361-F4052-E801**	**S26361-F4052-L801**
	"Virtual Connector" for DAC/AOC cables	1x	Enablement for System Architect	**V:DAC/AOC-CONNECTOR-100**	
	100G DAC - Cisco	1x	DAC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
	100G DAC - Mellanox	1x			
	100G AOC - Cisco	1x	AOC are not in Fujitsu's portfolio yet. Thus, test only and purchase from switch vendors.		
	100G AOC - Mellanox	1x			
	Max. 1x QSFP28 or DAC/AOC Cable per PLAN EP MCX4-EN 100Gb 1p QSFP28				
max. 6x PLAN EP MCX4-EN 100Gb 1p QSFP28					

Q

Q

Network cables for later upgrade

Fujitsu active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Fujitsu 2m	**S26361-F3989-L102**
SFP+ active Twinax Cable Fujitsu 5m	**S26361-F3989-L105**
SFP+ active Twinax Cable Fujitsu 10m	**S26361-F3989-L110**

Brocade active SFP+ Twinax 10Gb cable	
SFP+ active Twinax Cable Brocade 1m	**S26361-F3873-L501**
SFP+ active Twinax Cable Brocade 3m	**S26361-F3873-L503**
SFP+ active Twinax Cable Brocade 5m	**S26361-F3873-L505**

R

Chapter 12 - Fibre Channel Controller

R

max number of some controllers can vary with base units with 6x card slots

32Gb Fibre Channel controller generation 6 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	4x	2 ports, full height, Broadcom/Emulex	**S26361-F4044-E2**	**S26361-F4044-L502**
PFC EP LPe32000 1x 32Gb	4x	1 port, full height, Broadcom/Emulex	**S26361-F4044-E1**	**S26361-F4044-L501**
PFC EP QLE2742 2x 32Gb	6x	2 ports, full height, Cavium/Qlogic	**S26361-F4043-E2**	**S26361-F4043-L502**
PFC EP QLE2740 1x 32Gb	6x	1 port, full height, Cavium/Qlogic	**S26361-F4043-E1**	**S26361-F4043-L501**
max. 6 Controller per system (mixed configurations are supported)				
16Gb Fibre Channel controller generation 6 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	6x	2 ports, full height, Broadcom/Emulex	**S26361-F5596-E2**	**S26361-F5596-L502**
PFC EP LPe31000 1x 16Gb	6x	1 port, full height, Broadcom/Emulex	**S26361-F5596-E1**	**S26361-F5596-L501**
PFC EP QLE2692 2x 16Gb	6x	2 ports, full height, Cavium/Qlogic	**S26361-F5580-E2**	**S26361-F5580-L502**
PFC EP QLE2690 1x 16Gb	6x	1 port, full height, Cavium/Qlogic	**S26361-F5580-E1**	**S26361-F5580-L501**
max. 6 Controller per system (mixed configurations are supported)				

Chapter 13 - Infiniband Controllers

Infiniband and Omni path controller will be relased by Project Release Only

P

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

P

Optional power backplane (in chapter 16 - others) is required for 2x PSU (redundancy).

Dummy module instead of PSU in case only PSU is equipped; Dummy module: S26113-F574-E99, max. 1x per system

S26113-F575-E13 **S26113-F575-L13** 450W platinum power supply unit	**S26113-F574-E13** **S26113-F574-L13** 800W platinum power supply unit	**S26113-F615-E10** **S26113-F615-L10** 800W titanium power supply unit	**S26113-F616-E10** **S26113-F616-L10** 1200W platinum power supply unit
450W PSU platinum; 1st or 2nd PSU for redundancy; 94% efficiency	800W PSU platinum; 1st or 2nd PSU for redundancy; 94% efficiency	800W PSU titanium; 1st or 2nd PSU for redundancy; 96% efficiency	1200W PSU platinum; 1st or 2nd PSU for redundancy; 94% efficiency; 110V range: 1000W, <110V:900W;
100-240V, 50-60Hz	100-240V, 50-60Hz	220-240V only, 50-60Hz	100-240V, 50-60Hz
occupies hot plug PSU slot	occupies hot plug PSU slot	occupies hot plug PSU slot	occupies hot plug PSU slot
min. 1 / max. 2x per system	min. 1 / max. 2x per system	min. 1 / max. 2x per system	min. 1 / max. 2x per system

Tower

Power cord option for Tower Server, 1.8m, black (1x per PSU)	
T26139-Y1740-E10/L10	D, A, B, F, NL, FIN, N, S, E, P, RUS, TR
T26139-Y1742-E10/L10	USA, Canada
T26139-Y1743-E10	Switzerland
T26139-Y1744-E10/L10	UK, IR
T26139-Y1745-E10/L10	Italy
T26139-Y1746-E10/L10	Denmark
T26139-Y1757-E10/L10	Taiwan
Power cord option for Tower Server, 2.5m, black (1x per PSU)	
T26139-Y1747-E18/L18	Israel
T26139-Y1751-E10/L10	China
T26139-Y3850-E10	no powercord

Rack

Power cord option for Rack Server, 4m, grey (1x per PSU)	
T26139-Y1968-E100	Powercord for rack, IEC 320 C14 connector
T26139-Y1742-E10	USA, Canada, 1.8m, grey

S26361-F3301-E123 Certification for India ! Only with "no powercord option" Must for delivery to India max. 1x per system

S26361-F3301-E120 Certification for China (CCC) ! China cable or "no powercord" Must for delivery to China max. 1x per system

S26361-F1452-E100 Region Kit APAC/EMEA/India max. 1x per system	**S26361-F1452-E130** Region Kit Americas max. 1x per system	**S26361-F1452-E140** Region Kit Europe max. 1x per system

Q

Chapter 15 - Accessories

Q

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 sticks (FOR PROJECTS ONLY) - no standard release		
ADATA USB 3.0 Flash Stick UE700 – 32GB		S26391-F6048-L332
ADATA USB 3.0 Flash Stick UE700 – 64GB		S26391-F6048-L364

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

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

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

R

Chapter 16 - others

R

S26361-F3699-E20 **S26361-F3699-L20**
Redundant power supply
Power backplane for redundant power supply units. This option is condition for configurations with 2 power supplies.
max. 1x per system

S26361-F3846-E134 **S26361-F3846-L134**
Riser card for 2x PCIe + 1x PCI32 slots
Occupies slot 4 (PCIe-x16) and instead offers 2x PCIe-x8 + 1x PCI32 slots for full height cards.
max. 1x per system

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

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-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

Advanced Thermal Design is not available with LTO drives.

PY TX2550 M4 Tower 4x3.5' basic and PY TX2550 M4 Tower 8x2.5' basic do not support ATD options!

S26361-F3776-E440
Cool-safe ® Advanced Thermal design 40°C
enables the PRIMERGY Server to cope with temperatures from 5-40° in operating mode due to extended Fan settings
this setting can be activated ex factory only
max. 1x per system

S26361-F3776-E445
Cool-safe ® Advanced Thermal design 45°C
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-F3120-E3 S26361-F3120-L3
Serial port / RS232-C interface Serial port mounted at system rear side, connected via cable
max. 1x per system

This serial port option is dedicated for several PRIMERGY Servers and will be delivered with full height and low profile brackets, which are not required for PRIMERGY TX2550 M4.

S26361-F3552-E100 S26361-F3552-L100
Trusted Platform Module 2.0
max. 1x per system

S26361-F3552-E101
Trusted Platform Module 1.2
max. 1x per system

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> staging services ex factory,
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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
28.10.2016	PRIMERGY TX2550 M4	FIRST DRAFT RELEASE
03.11.2016	S26341-F103-L140	changed to new USB Optical Disc Drive
10.11.2016	update IB	add EDR
24.11.2016	RAM	Update
14.12.2016	T26139-Y1747-E18/L18	Added power cord for Israel
14.12.2016	RAID	add new raid controllers + retimer card
21.12.2016	CPU	Update
22.12.2016	RAM	Update
22.12.2016	RAM	Reviewed
27.12.2016	HD_SSD	updated
06.01.2017	HD_SSD / S26361-F5588/F5589-E120/L120	removed
13.01.2017	Backup drive (LTO/RDX)	updated
20.01.2017	HD_SSD / S26361-F5642/F5648/F5649/F5650-*	added
03.02.2017	Others	Riser card option and redundancy option added
07.02.2017	HD_SSD / SED / S26361-F5632-L240	note for SED updated / order code corrected
14.02.2017	PFC	Aligned to Copmponent PAP
14.02.2017	PLAN	Aligned to Copmponent PAP
14.02.2017	LOM	Aligned to System PM Decision
16.02.2017	LAN	Color yellow --> light green for LAN register
20.02.2017	PFC, PLAN	Correction: LP components deleted
23.02.2017	CPU	order codes and specifications added
16.03.2017	RAM	Mirrored Channel Mode updated
27.03.2017	HD_SSD / Note / M.2 SSD	updated
27.03.2017	HD_SSD / S26361-F5583-* / F5648-*	removed / Capacity changed
28.03.2017	PRAID EP520i, 540i, 580i	CacheCade deleted
30.03.2017	S26361-F5243-E14/L14	comment added
30.03.2017	S26361-F3849-E100	cooling kit added
04.04.2017	RAM	Mirrored Channel Mode text modified
05.04.2017	RAM	info-text updated
12.04.2017	eLCM	Added in "Others" sheet
27.04.2017	USB devices	Added HLDS ODD
27.04.2017	PLAN EP QL45212	Updated
09.05.2017	S26361-F3552-E101	TPM 1.2 Module added
09.05.2017	RAM	new order codes added
17.05.2017	HD_SSD / NON hot plug drives	updated
06.06.2017	HD_SSD / F5666/F5670-* / F5614/F5617-*	Note updated / added / removed
07.06.2017	CPU	loose components added
13.06.2017	RAID	descriptions of FBU options changed
29.06.2017	S26361-F5243-L110/S26361-F4042-L110	changed to S26361-F5243-L115/S26361-F4042-L110
12.07.2017	RAID	info-text added
20.07.2017	HD_SSD / F5677-E240 / F5648-* / PCIe SSD	added / codes modified / DWPD corrected
20.07.2017	LAN	Added: 10GbE Ethernet adapter X710-DA4 4-Port, Intel
24.07.2017	HD_SSD / F5673/F5675-* / F5531/F5532-E590	added / F5588/F5589-E240/E480 removed
02.08.2017	LAN	Deleted: PLAN AP 1x1Gbit Cu Intel I210-T1
02.08.2017	LAN	Added: PLAN EP MCX4-Lx/EN 25,40,100GbE
07.08.2017	RAM	Update of memory mirrored mode description
25.09.2017	base	rack conversion kit changed to S26361-F1729-L290
25.09.2017	HD drive cage	Expander hints adjusted
2&.09.2017	Raid page	add comments, increase to 2x RAID + HBA for mirrored mode
27.09.2017	HD_SSD / S26361-F5650-E640/L640	removed
06.10.2017	DVD-RW S26361-F3269-E2/-L2	removed
19.10.2017	Xeon Gold 6100M CPU ..-E334/340/342	removed
20.10.2017	HD_SSD / S26361-F4045-E64	added
20.10.2017	FC_IB	removed all IB order code. Those will be Project release only.
24.10.2017	HDD_SSD / Note	removed for 2.5" 7.2K/15K HDD / added for M.2 drive
24.10.2017	LAN	Added: 25GbE Adapter, Intel
25.10.2017	RAID	note in Z60S51 changed
26.10.2017	LAN	25GbE Adapter, Intel: LP deleted, FH max = 6
26.10.2017	FC_IB	16GFC Adapter: max = 6: F5596-E1/E2 F5580-E1/E2
26.10.2017	LAN	remark by S26361-F3953-E210/-L210

26.10.2017	Description	PLAN EM Blind Panel OCP instead of OCP module
13.11.2017	HDD_SSD	note for Dual microSD and DWPD for PCIe-SSD modified
17.11.2017	RAID, FC, LAN	reduce number of some ctrl.for base units w/ 6 card slots
S. Pilz / 06.12.2017	others	ATD code corrected
08.12.2017	S26361-F2748-E538	on special release only!
15.01.2018	HDD_SSD	F5694/F5692-* / F5696-E240 added
15.01.2018	HDD_SSD	F5543/F5582/F5569-E124 / F5571/F5624/F3904-E120 added
15.01.2018	HDD_SSD / exclusions for	8/10TB HDDs and PSAS CP400i/PRAID EP540i modified
31.01.2018	Xeon Silver 4114T	set to special release
06.02.2018	ATD	PY TX2550 M4 Tower 4x3.5' basic and PY TX2550 M4 Tower 8x2.5' basic do not support ATD options!
13.02.2018	LAN	PLAN EP QL41212 & QL45611 added
21.02.2018	LAN	PLAN EM OCP - Released
22.02.2018	HDD_SSD / 2.5" (SFF) PCIe-SSD	max. number corrected
02.03.2018	HDD_SSD / F5701/F5703/F5700/F5706/F5697-*	added
21.03.2018	FC_IB	QLE274X FC HBA Max = 6, up from 4
21.03.2018	LAN	SFP28 S26361-F4055-E/L701 added for PLAN EP QL41212
16.04.2018	LAN / S26361-F3953-E210, L210	Added: Release Pending
19.04.2018	LAN	Added: PLAN EP X710-T4 4x10GBASE-T
20.04.2018	RAID w/o NVMe	NVMe support with PRAID EP 5x0i special release only
02.05.2018	LAN / S26361-F3953-E210, L210	Release Pending --> Released
17.05.2018	HDD_SSD / F4064-*	added: Dual M.2
17.05.2018	HDD_SSD	revised the description about Dual M.2
23.05.2018	HDD_SSD / / Dual M.2	revised the description for Vmware
25.06.2018	HDD_SSD / S26361-F5707-* / M.2 for VMware	added
29.06.2018	PRAID EP540e	external 4GB RAID Ctrl + FBU added changed # of TFM, FBU for all ext. RAID ctrl. to max 2
03.07.2018	GFX_FPGA	Modify FPGA Card - Options in "GFX_FPGA" tab. - add Intel PAC Arria 10 GX FPGA support.
04.07.2018	RAID folder	changed some comments for Advanced SW options
11.07.2018	GFX_FPGA	Modify Graphic Card - Options in "GFX_FPGA" tab. - add NVIDIA Quadro P400 support.
01.08.2018	HDD_SSD / Dual M.2	Notes updated
07.08.2018	HDD_SSD / S26361-F5710/F5711-*	added
31.08.2018	LAN / S26361-F4068-E2, L502	Added: PLAN EP QL41112 2x10GBASE-T
31.08.2018	LAN / S26361-F4068-E4, L504	Added: PLAN EP QL41134 4x10GBASE-T
31.08.2018	LAN / S26361-F4069-E2, L502	Added: PLAN EP QL41132 2x10Gb SFP+
31.08.2018	LAN / S26361-F4070-E2, L502	Added: PCNA EP QL41262 2x10/25Gb SFP+/SFP28
31.08.2018	LAN	Cosmetic changes: 25G Ethernet section
13.09.2018	Others / S26361-F3776-E10	Silent TX configuration added
18.09.2018	GFX_FPGA	Modify Graphic Card - Options in "GFX_FPGA" tab. - add "DP- DVI/D" adapter
11.10.2018	RAID folder	max. number of HAB, RAID = 2 for mirrored mode, V216, V416
12.10.2018	HD_SSD / S26361-F5588/F5589-E384/L384 / Added	Added: SSD SATA 2.5" & 3.5" Mixed-Use 3.84TB
26.10.2018	HD_SSD / exclusions for 8/10TB HDDs and	removed
29.10.2018	HD_SSD / S26361-F5635/F5638-E800/L800	added
	HD_SSD / S26362-F5713/F5715-*	added
18.01.2019	HD_SSD / S26362-F5713/F5715-* / revised	revised the description about max drives
13.02.2019	HD_SSD / S26361-F3907-* / added the	added the exclusion for HDD SATA 2.5" 7.2K 512e and
02.07.2019	HD_SSD / S26361-F5737/F5738-* / added	added PCIe-SSD 2.5"
26.07.2019	HD_SSD / S26361-F5737/F5738-* / updated	removed the description as "as soon as available"
06.12.2019	HD_SSD	updated the description about Hard Disk Sector Format