PRIMERGY TX1320 M3
small form factor
Tower server

Chapter	Folder	Content
	Cover	List of content, Instructions for usage of this configurator, abbreviations
	Description	System Description for easier understanding
1	Base	describes base unit of TX1320 M3
2		describes rack mount kits and services
3	CPU	Order code and Infos of 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	RDX drive
10	HD_SSD	Storage drives - SAS/SATA SSD & HDD
11	LAN_FC_IB	LAN Components
12		Fibre Channel Controller (n.a. for TX1320 M3)
13		Infiniband Controller (n.a. for TX1320 M3)
14	PSU	Power supply units, power cables, country specific opt.
15	USB_devices	Keyboards, Mice, USB devices
16	others	System Management, ATD, RS232 port, TPM module

Instructions

This document contains basic product and configuration information that supports you in more complicated configurations.

In any case we recommend to use the PC-/SystemArchitect to make sure, that you configure a valid system.

This System configurator is divided into several chapters. They are identical to the current price list and PC-/SystemArchitect.

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

Chapter xx - description of chapter

Text fields with grey color offer extra information for related topics (e.g 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

The PRIMERGY TX1320 M3 Server is available in 3 versions:

Start

choose base unit

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

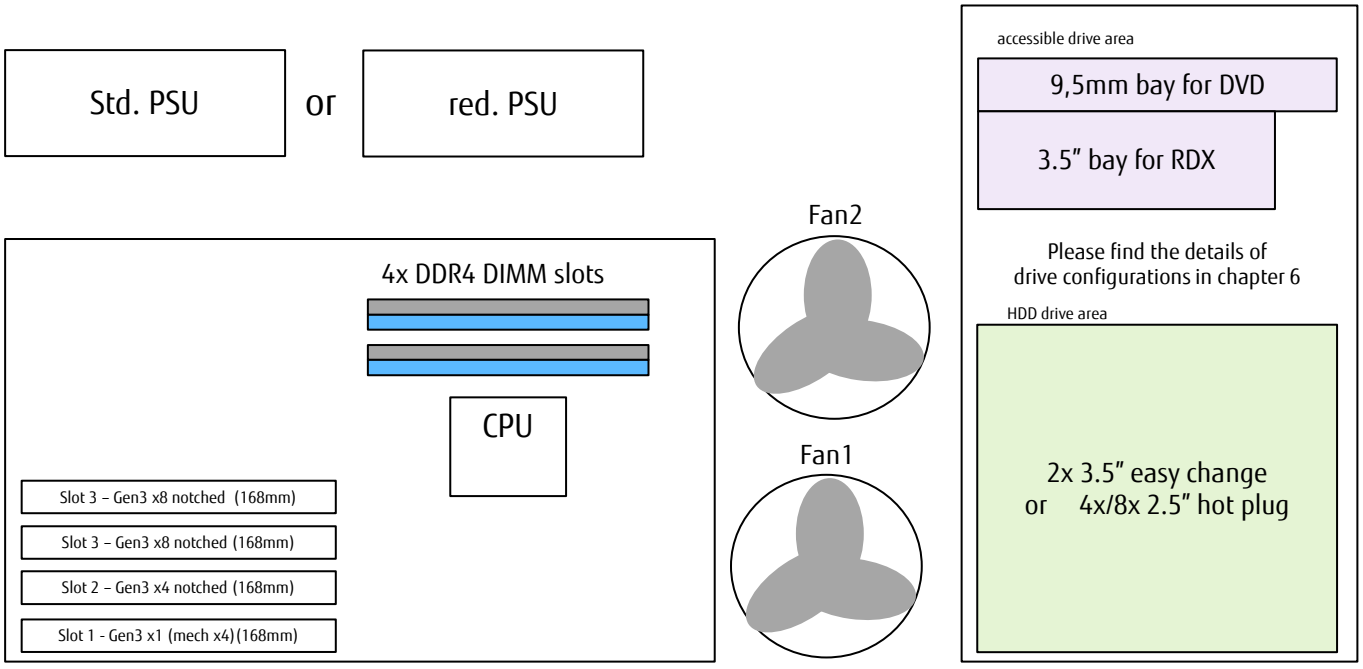
choose backup

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

choose optical drive

- Select 9,5mm DVD or Blu Ray drive

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



Chapter 1 - base unit

Start

Base Unit
For the PRIMERGY TX 1320 M3 you can choose between a version using a standard PSU and supporting up to 2x 3.5" easy change (non hot plug) HDD or a version using either a standard or an hot plug PSU and aupporting up to 4x/8x 2.5" hot plug HDD.

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

Server Management
iRMC S4 (integrated Remote Management Controller) on-board with dedicated (or shared) 10/100/1000 Service LAN-port and integrated graphics controller. With the integrated onboard indicators and controls You can highlight easily failed components via LEDs. The LEDs can be displayed during service even without mains connection by simply pressing the "indicate CSS" button.

Platform
Fujitsu Systemboard D3373 made in Germany based on Chipset Intel® C236
> cables for connection to the modular or onboard controllers included
> Celeron, Pention, Core i3 or Xeon E3-1200 v6 series CPUs
Slots:
Slot 4 PCIe-Gen3 x8 (notched) - supports modular RAID functions
Slot 3 PCIe-Gen3 x8 (notched) - preffered slot for Grafics Card option
Slot 2 PCIe-Gen3 x4 (notched)
Slot 1 PCIe-Gen3 x1 (mechanically x4) - may be used for legacy PCI option

System RAM DDR4-2400 MHz
4 memory slots for max. 64GB DDR4 RAM.

LAN
2x Intel i210 Gigabit Ethernet

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

Connectivity

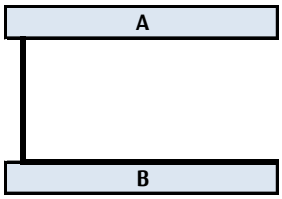
Interfaces at rear side	Interfaces at front
1x RS-232-C (serial, 9 pin)	2x USB 3.0 no USB wakeup
2 LAN RJ45 (1 Gbit)	Interfaces internal
1 service LAN RJ45 (1 Gbit)	1x internal USB 3.0 connectors for backup devices
1x VGA (15 pins)	1x UFM
2x USB 3.0 & 4x USB 2.0 no USB wakeup	2x SATA 6G (1x w/ SATA DOM support)
	1x Mini SAS/SATA (4x SATA 6G)

hot plug HDD
S26361-K1591-V101
TX1320 M3 SFF Base Unit w/ std. PSU (2.5" HDD)
S26361-K1591-V151
TX1320 M3 SFF Base Unit w/ red. PSU (2.5" HDD)

easy change HDD
S26361-K1591-V201
TX1320 M3 LFF Base Unit (3.5" HDD)

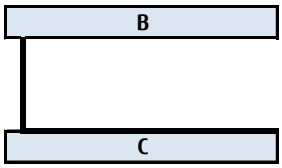
A

Chapter 2 - Rack architecture



Rackmount not supported by TX1320 M3

Chapter 3 - Options for Base Unit



no Base Unit Options available for TX1320 M3

Chapter 3 - CPU

B

One of following CPU´s has to be selected for an orderable basic unit

Celeron (Kaby Lake-E)		
64-bit Intel Celeron processor supporting DDR4 @ 2.133MHz		
Celeron G3930 2.9GHz 2C/2T 2MB 2133MHz (51W)	**S26361-F4029-E103**	**On special release request only**
Pentium (Kaby Lake-E)		
64-bit Intel Pentium processor supporting DDR4 @ 2.400MHz		
Pentium G4560 3.5GHz 2C/4T 3MB 2400MHz (54W)	**S26361-F4029-E104**	
Core i3 (Kaby Lake-E)		
64-bit Intel Core i3 processor supporting DDR4 @ 2.400MHz		
Core i3-7100 3.9GHz 2C/4T 3MB 2400MHz (51W)	**S26361-F4029-E107**	
Xeon E3-12xx v6 (Kaby Lake-E)		
64-bit Intel Xeon processor supporting DDR4 @ 2.400MHz		
Xeon E3-1220v6 3.0GHz 4C/4T 8MB 2400MHz Turbo (72W)	**S26361-F4029-E120**	
Xeon E3-1225v6 3.3GHz 4C/4T 8MB 2400MHz Turbo (73W)	**S26361-F4029-E125**	
Xeon E3-1230v6 3.5GHz 4C/8T 8MB 2400MHz Turbo (72W)	**S26361-F4029-E130**	
Xeon E3-1240v6 3.7GHz 4C/8T 8MB 2400MHz Turbo (72W)	**S26361-F4029-E140**	
Xeon E3-1270v6 3.8GHz 4C/8T 8MB 2400MHz Turbo (72W)	**S26361-F4029-E170**	
Xeon E3-1280v6 3.9GHz 4C/8T 8MB 2400MHz Turbo (72W)	**S26361-F4029-E180**	**On special release request only**

C

Chapter 4 - DDR4 System memory

D

There are 2 memory banks with 2 DIMM slots each.

Single channel memory configuration allow maximum flexibility:
Additional memory can be configured as single memory modules.

Dual channel memory configurations for maximum performance:
For optimum performance memory has to be configured in pairs of memory modules with identical size.

max. 64GB unbuffered DDR4 RAM for UDIMMs with 16GB moduls @ 2.400 MT/s

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

Unbuffered Memory (UDIMM) with ECC support			
4GB (1x4GB) 1Rx8 DDR4-2400 U ECC	single rank	**S26361-F3909-E614**	**S26361-F3909-L614**
8GB (1x8GB) 1Rx8 DDR4-2400 U ECC	single rank	**S26361-F3909-E615**	**S26361-F3909-L615**
16GB (1x16GB) 2Rx8 DDR4-2400 U ECC	Dual rank	**S26361-F3909-E616**	**S26361-F3909-L616**

E

On special release request only

Chapter 5 - Graphics cards

E

S26361-F2748-E638
S26361-F2748-L638
NVIDIA NVS315
Dual Head operation + professional 2-D or 3D supported by Windows operating systems
1x LFH 59 connector with cable kit for2x DVI or 2x VGA included
occupies 1x PCIe 3.0 x8 slot
max. 1x per system

For deliveries to China with CCC label no grafic card is allowed within the configuration. It can be ordered as loose delivery only!

The high end optional NVIDIA NVS315 graphic card offers dual head operation and fully 3D video support. The cables for either two times DVI or VGA connections are part of the deflivery. Remote Video direction via iRMC must be disabled.

NVS315 needs an notched or an x16 PCIe slot

S26361-F4066-E401
S26361-F4066-L401
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
Low profile 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

F

Chapter 6 - HD drive cage

F

Definition:
TX1320 M3 is availabel in three basic versions:
1. Base unit for 2x 3.5" non hot plug HDD w/ std. PSU
2. Base base unit for 4x/8x 2.5" hot plug HDD w/ std. PSU
3. Base base unit for 4x/8x 2.5" hot plug HDD w/ hot plug PSU

In case of 2.5" base unit you can configure an 2nd HDD Backplane for a total of 8x 2,5" hot plug HDD

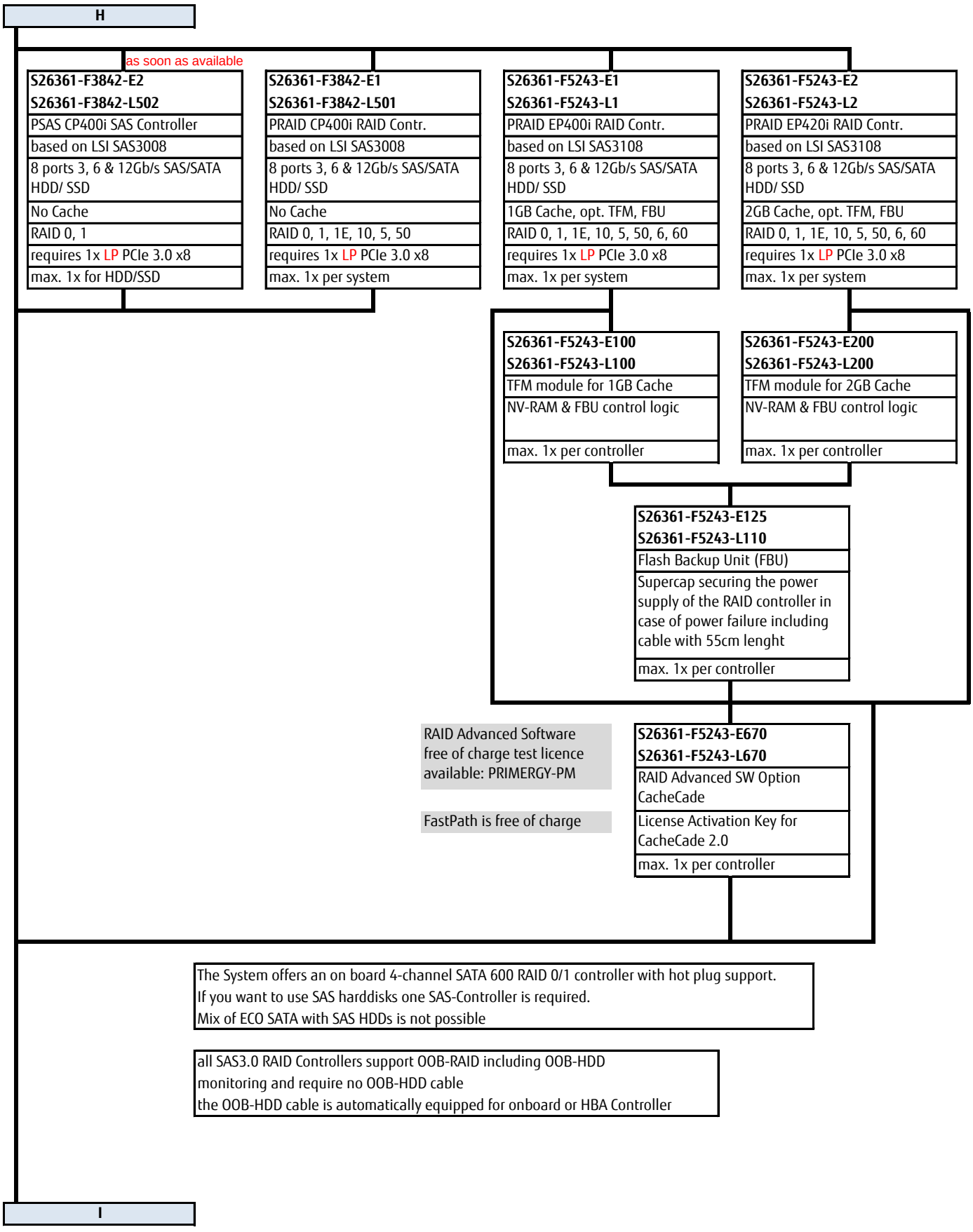
S26361-F5535-E3 **S26361-F5535-L3**
2nd HDD Backplae
offers 4x SFF (2,5") hot plug HDD
max. 1x per system

1. for SFF base unit only

2. RAID controller required

G

Chapter 7 - SAS / RAID Controller



Chapter 7 - SAS / RAID Controller

H

onboard SATA controller with SW-RAID

onboard controller for SATA HDD or SSD drives					
4 ports 3, 6Gb/s SATA HDD/SSD	based on Intel chipset	No Cache	SW-RAID 0, 1	1x	**onboard**

intenal HBA and RAID controller, no 2nd Level cache

internal drive RAID / HBA controllers for SAS, SATA HDD or SSD drives					
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					
PRAID CP400i RAID Contr.	No Cache	RAID 0, 1, 1E, 10, 5, 50	1x	**S26361-F3842-E1**	**S26361-F3842-L501**
PSAS CP400i HBA SAS Contr.	No Cache	HBA + RAID 0, 1	1x	**S26361-F3842-E2**	**S26361-F3842-L502**

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

internal drive RAID / SAS, SATA controllers with Cache and opt. TFM module + Flash Backup Unit and opt. Advanced SW Options					
PRAID EP400i RAID Contr.	1GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F5243-E1**	**S26361-F5243-L1**
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			1x	**S26361-F5243-E670**	**S26361-F5243-L670**
optional Transportable Flash module (TFM) and Flash Backup Unit (FBU), both components required					
TFM module for 1GB Cache	NV-RAM & FBU control logic		1x	**S26361-F5243-E100**	**S26361-F5243-L100**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 25cm lenght			1x	**S26361-F5243-E125**	**S26361-F5243-L110**
PRAID EP420i RAID Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F5243-E2**	**S26361-F5243-L2**
PRAID EP420i for SafeStore R. Contr.	2GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F5243-E4****	**S26361-F5243-L4****
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			1x	**S26361-F5243-E670**	**S26361-F5243-L670**
optional TFM module and Flash Backup Unit (FBU), both components required					
TFM module for 2GB Cache	NV-RAM & FBU control logic		1x	**S26361-F5243-E200**	**S26361-F5243-L200**
FBU Option for PRAID EP4xx: Supercap securing the power supply of the RAID controller in case of power failure including cable with 25cm lenght			1x	**S26361-F5243-E125**	**S26361-F5243-L110**

as soon as available, use for high cache size, NVMe not supported

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 EP540i RAID Contr. LP	4GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F4041-E204**	**S26361-F5243-L504**
PRAID EP580i RAID Contr. LP	8GB Cache	RAID 0,1,1E,10,5,50,6,60	1x	**S26361-F4041-E208**	**S26361-F5243-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~~ 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 25cm lenght			1x	**S26361-F4042-E155**	**S26361-F4042-L110**

Check: the FBU can / cannot be combined with Advanced Thermal design.
Check: how many FBU can be integrated per System

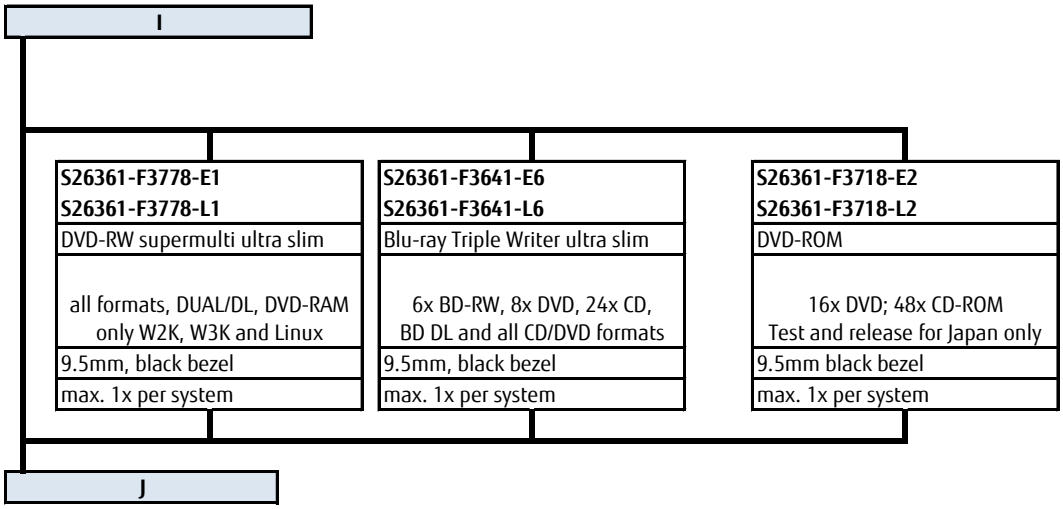
CacheCade + FastPath is supported
SafeStore + FastPath is supported
SafeStore + CacheCade is not supported

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

** SafeStore (SED) RAID controller require SED HDD or SSD devices

I

Chapter 8 - ODD optical disk drives



Chapter 9 - backup drives

TX1320 M3 is availabel in three basic versions:
1. Base unit for 2x 3.5" non hot plug HDD w/ std. PSU
2. Base base unit for 4x/8x 2.5" hot plug HDD w/ std. PSU
3. Base base unit for 4x/8x 2.5" hot plug HDD w/ hot plug PSU

In any case an RDX backup drive may be configured.

J

RDX drive				
RDX drive is not including Cartridge.				
RDX Drive cage (w/o cartriges)	USB 3.0, 3.5 inch / Half Height	1x	**S26361-F3750-E5**	**S26361-F3750-L5**

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**

K

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.
512n & 512e HDDs can be mixed, but cannot be used in one logical RAID volume.
When using SSDs with VMware ESXi, select the SSDs that meet the endurance requirement described in KB2145210 below.
https://kb.vmware.com/kb/2145210
DWPD: Drive Writes Per Day over 5 years.
SED (=Self Encrypting Drives) require either a RAID controller with ®SafeStore (SED) support or an HBA and in addition a software instance, supporting SED Key Management.
It is strongly recommended to order SafeStore (SED) RAID controller with SED HDD or SSD devices for SafeStore (SED) functionality.

HDD Classes:
Economic (ECO) SATA: Entry Class Drives.
Business-Critical (BC) -SATA=Nearline SATA Enterprise Drives / 7.2Krpm, SATA 6G.
Business-Critical (BC) -SAS Nearline SATA 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.

L

2.5" (SFF) SATA SSD

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**

max. 4x/8x - 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	as soon as available	**S26361-F5694-E240**	**S26361-F5694-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.3	as soon as available	**S26361-F5694-E480**	**S26361-F5694-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0	as soon as available	**S26361-F5694-E960**	**S26361-F5694-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Mixed Use	3.0	as soon as available	**S26361-F5694-E192**	**S26361-F5694-L192**

max. 4x/8x - 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. 4x/8x - 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	as soon as available	**S26361-F5701-E240**	**S26361-F5701-L240**
480GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9	as soon as available	**S26361-F5701-E480**	**S26361-F5701-L480**
960GB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9	as soon as available	**S26361-F5701-E960**	**S26361-F5701-L960**
1.92TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.9	as soon as available	**S26361-F5701-E192**	**S26361-F5701-L192**
3.84TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	1.0	as soon as available	**S26361-F5701-E384**	**S26361-F5701-L384**
7.68TB	2.5" (SFF)	SATA 6Gb/s	Read Intensive	0.5	as soon as available	**S26361-F5701-E768**	**S26361-F5701-L768**

max. 4x/8x - depending on base unit & configuration

2.5" (SFF) Hard drives

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

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
300GB	15 000	SAS 12Gb/s	512n		**S26361-F5531-E530**	**S26361-F5531-L530**
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. 4x/8x - depending on base unit & configuration

L1

L1

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. 4x/8x - 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	as soon as available	**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 as soon as available	**S26361-F5582-E124**	**S26361-F5582-L124**

max. 4x/8x - 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. 4x/8x - 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. 4x/8x - depending on base unit & configuration

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. 4x/8x - depending on base unit & configuration

3.5" NON hot plug Drives for internal bays

HDD SATA 3.5" 7.2K 512n (LFF) Enterprise Business Critical with **NON** 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-F5637-E100**	**S26361-F5637-L100**
2TB	7 200	SATA 6Gb/s	512n		**S26361-F5637-E200**	**S26361-F5637-L200**
4TB	7 200	SATA 6Gb/s	512n		**S26361-F5637-E400**	**S26361-F5637-L400**

max. 2x - depending on base unit & configuration

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

6TB	7 200	SATA 6Gb/s	512e		**S26361-F5639-E600**	**S26361-F5639-L600**
8TB	7 200	SATA 6Gb/s	512e		**S26361-F3905-E800**	**S26361-F3905-L800**
10TB	7 200	SATA 6Gb/s	512e		**S26361-F3905-E100**	**S26361-F3905-L100**
12TB	7 200	SATA 6Gb/s	512e	as soon as available	**S26361-F3905-E120**	**S26361-F3905-L120**

max.2x - depending on base unit & configuration

HDD SATA 3.5" 7.2K (LFF) ECO with **NON** hot plug/hot replace tray

Capacity	*RPM*	*Interface*	*Sector*		*order code E-part*	*order code L-part*
500GB	7 200	SATA 6Gb/s	512e		**S26361-F5641-E500**	**S26361-F5641-L500**
1TB	7 200	SATA 6Gb/s	512e		**S26361-F3952-E100**	**S26361-F3952-L100**

max. 2x - depending on base unit & configuration

L2

L2

SATA DOM

SATA DOM Non volatile storage drive for booting, non hot-plug							
Capacity	*Formfactor*	*Interface*	*DWPD*	*Category*		*order code E-part*	*order code L-part*
64GB	DOM	SATA 6Gb/s	0.14	Boot	vertical	**S26361-F5618-E64**	**S26361-F5618-L64**
128GB	DOM	SATA 6Gb/s	0.13	Boot	vertical	**S26361-F5618-E128**	**S26361-F5618-L128**
SATA DOM is designed for use as a boot drive with the Endurance Spec. above. VMware is not supported.							
max. 1x per Server; internal connector located on Motherboard (please see folder "base").							

M

Chapter 11 - LAN Components

M

Networking Controller — in total max. 2x Controller per System (mix possible)

1Gbit Controllers — in total max. 2x 1Gbit Controller per System

S26361-F4610-E202 S26361-F4610-L502	S26361-F4610-E204 S26361-F4610-L504	S26361-F3852-E201 S26361-F3852-L501
PLAN CP 2x1Gbit Cu Intel I350-T2	PLAN CP 4x1Gbit Cu Intel I350-T4	PLAN AP 1x1Gbit Cu Intel I210-T1
Dual port Gigabit Ethernet server adapter Intel I350-T2 Based on Intel® Powerville	Quad port Gigabit Ethernet server adapter Intel I350-T4 Based on Intel® Powerville	Single port Gigabit Ethernet server adapter Intel I210-T1 Based on Intel® Springville
PCIe Gen2 x4	PCIe Gen2 x4	PCIe Gen2 x1
max. 2x per system	max. 2x per system	max. 2x per system

in total max. 1x 10Gbit Controller per System

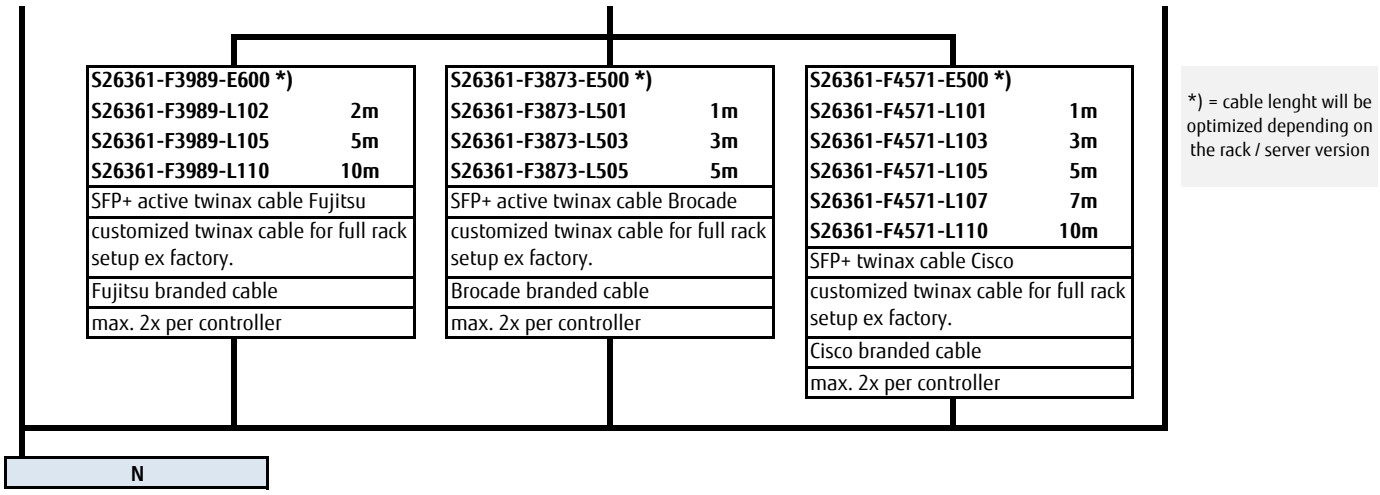
10Gb Ethernet controller with RJ45 interface 10GBASE-T. Intel				
PLAN EP X550-T2 2x10GBASE-T LP	1x	2 port NIC, Intel	**S26361-F3948-E202**	**S26361-F3948-L502**
10Gb Ethernet controller with SFP+ cage requires SFP+ modules or twinax cables. Intel				
Dual rate 10G/1G support requires 10G/1G Dual Rate SFP+ Optical Transceiver Modules				
PLAN EP X710-DA2 2x10Gb SFP+ LP	1x	2 port NIC, Intel	**S26361-F3640-E202**	**S26361-F3640-L502**
optional 10Gb SFP+ module with LC connector for Fujitsu / Intel based controller				
SFP+ Optival Transceiver 10G/1G Dual Rat	2x	LC, MMF / SR SFP+ module, up to 400m	**S26361-F3986-E5**	**S26361-F3986-L5**
SFP+ Optical Transceiver 10G/1G Dual Rat	2x	LC, SMF / LR SFP+ module, up to 10km	**S26361-F3986-E6**	**S26361-F3986-L6**
SFP+ Optical Transceiver 10G Single Rate	2x	LC, MMF / SR SFP+ module, up to 400m	**S26361-F3986-E3**	**S26361-F3986-L3**
SFP+ Optical Transceiver 10G Single Rate	2x	LC, 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				

10Gb Ethernet controller with SFP+ cage requires SFP+ modules or twinax cables. Broadcom/Emulex

S26361-F5536-E202 S26361-F5536-L502
PLAN EP OCe14102 2x10GBit/s
2 Kanal 10Gbit/s LAN Controller based on Emulex Skyhawk offers 2x 10Gbit/s SFP+ connectors
PCIe Gen3 x8
max. 1x per system

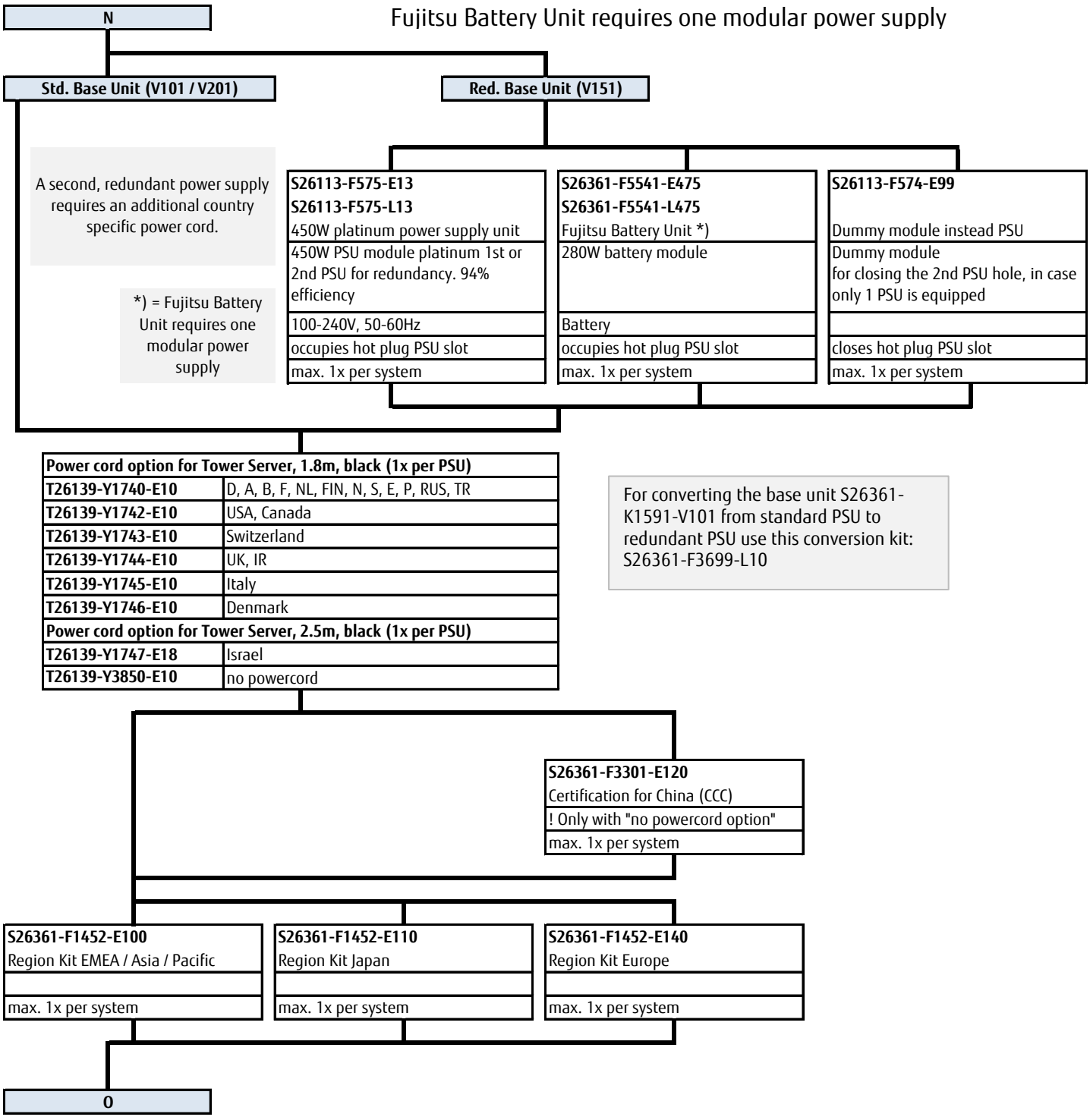
S26361-F5250-E110 S26361-F5250-L110	S26361-F3986-E3 S26361-F3986-L3	S26361-F3986-E4 S26361-F3986-L4
PCNA SFP+ MMF Modul OCe14102	SFP+ Module MMF 10GbE LC	SFP+ Module SMF 10GbE LC
MMF / SR SFP+ module for use in FCoE Ctrl OCe14102 LC-SR-connector	MMF / SR SFP+ module for use in Fujitsu Ctrl LC-SR-connector	SMF / LR SFP+ module for use in Fujitsu Ctrl LC-SR-connector
max. 1x per system	max. 1x per system	max. 1x per system

V:TWX Con.-PY for all Twinax (FTS,BR,CI)
max. 2x per controller



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

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



Chapter 15 - Accessories

0 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**

P

Chapter 16 - others

P

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

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

S26361-F1790-E310 **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-E101
Cool-safe ® Advanced Thermal design
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

The ATD feature cannot operate with LTO drives.
They will be excluded from configurations with ATD

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

S26361-F3552-E6 **S26361-F3552-L6**
TPM Module
TPM module
max. 1x per system

S26361-F3552-E10 **S26361-F3552-L10**
TPM 2.0 Module
TPM 2.0 module
max. 1x per system

You would like to add some customer specific solutions?

--> Please contact our made4you team (mailto:customer.projects@ts.fujitsu.com) for more customer specific solutions.
E.g. Lifecycle Management, Customer specific Logos, component or BIOS fixes, ...
--> CUZ fragen, was sie hier gerne reinschreiben würden

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	Name	What has been changed / comment
07.11.2018	HD_SSD / exclusion for 8/10TB HDDs and PRAID E	Yuichi Sugiyama	removed
08.10.2018	replace S26361-F4042-E125 with 155	Johannes Linne	use longer cable for FBU for PRAID EP5xxi
18.09.2018	GFX	Takayuki Sasaki	Modify Graphic Card - Options in "GFX" tab. - add "DP- DVI/D" adapter
11.07.2018	GFX	Takayuki Sasaki	add NVIDIA Quadro P400 support.
02.03.2018	HD_SSD / S26361-F5701-*		added
18.01.2018	HD_SSD / exclusion for 8/10TB HDDs and PRAID E		added
15.01.2018	HD_SSD / exclusion for 8/10TB HDDs and PSAS CP		removed
15.01.2018	HD_SSD / F5694-* / F5543/F5582-E124 / F3905-E		added
15.01.2018	HD_SSD / F5588-E240/E480		removed
30.11.2017	CPU / S26361-F4029-E105	Meszaros	Xeon E3-1205v6 removed
23.11.2017	CPU / S26361-F4029-E105	A. Spörl	Xeon E3-1205v6 added
25.10.2017	RAID	A. Spörl	note in Z55S51 changed
05.09.2017	HD_SSD / Note for 2.5" 7.2K/15K HDD		removed
24.07.2017	HD_SSD / F5675-* / F5531-E590		added
12.07.2017	RAID		info-text added
13.06.2017	RAID		descriptions of FBU options changed
06.06.2017	HD_SSD / Note		updated
27.04.2017	USB Devices		New ext. ODD added
25.04.2017			India Cert. Removed (was typo)
29.03.2017	S26361-F5243-E4/L4		comment added
28.03.2017	PRAID EP540i, 580i		CacheCade deleted
28.03.2017	S26361-F3909-E615/L615		corrected from dual rank to single rank
27.03.2017	HD_SSD / S26361-F5618-* / F5583-*		Endurance updated / removed
15.03.2017			Limitation for 1x SATA DOM added
10.02.2017	S26361-F5243-E2 / E4 instead E12, E14		with small heatsink
07.02.2017	HD_SSD / SED / S26361-F5632-L240		note for SED updated / order code corrected
03.02.2017	new RAID folder: PRAID EP5xxi, EP420 for SED		added
02.02.2017	PLAN EP X550-T2		added
02.02.2017	PLAN EP X710-DA2		added
02.02.2017	S26361-F1790-E310		embedded Lifecycle Management (eLCM) added
31.01.2017	USB devices		updated
18.01.2017	others		TPM order code for upgrade component was wrong
13.01.2017	RDX		updated to new layout.
06.01.2017	HD_SSD / S26361-F5592-* / F5588-E120/L120		removed
26.12.2016	HD_SSD / SED		added
14.12.2016	HD_SSD / S26361-F3905/5637/5639/5641-*		added
14.12.2016	T26139-Y1747-E18		added power cord for Israel
02.12.2016	HD_SSD / S26361-F5632-*		added
01.12.2016	S26361-F4029-E103/E104/E107		added
17.11.2016			added order codes for CPUs
11.11.2016	ODD		Order Codes for 9,5mm ODD corrected
28.10.2016	S26341-F103-L140		Ext. ODD option update
28.10.2016	HD_SSD		updated
27.10.2016	S26361-F3629-E202/S26361-F3629-L502		old LAN deleted
21.10.2016	S26361-F3752		old X540 LAN deleted
11.10.2016			CPU power corrected
11.10.2016	S26361-F5535-E3/L3		added oder code for HDD upgrade
11.10.2016	S26361-F3699-L10		added conversion kit std. to red. PSU
29.09.2016	S26361-F3909-E/L614/615/616		added order codes
13.09.2016	CPU, RAM		CPU & Memory portfolio update
02.08.2016	PLAN i350		S26361-F4610-E202
08.04.2016	First Draft		