

PRIMERGY TX100 S3p

System configurator and order-information guide

June 2014

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PRIMERGY Server

Instructions

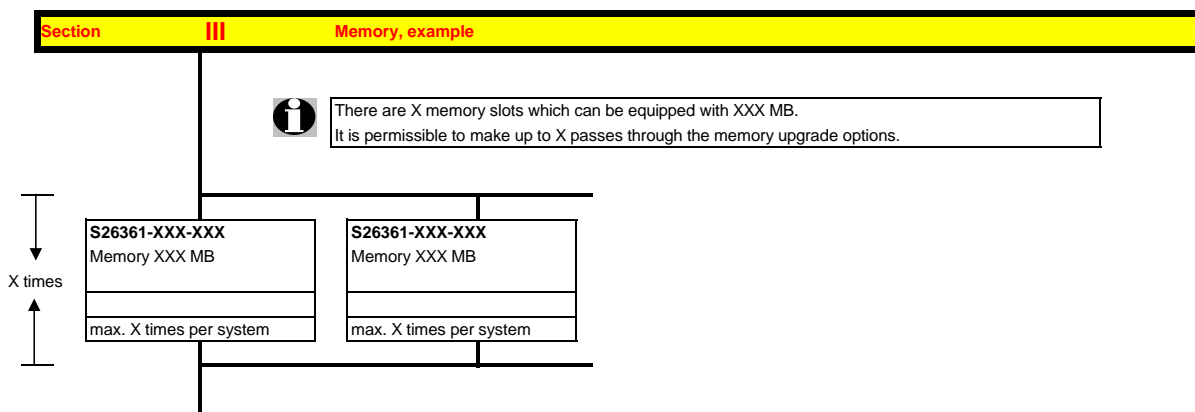
This document contains basic product and configuration information that will enable you to configure your system via PC-/ System-Architect.

Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

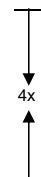
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

The System configurator is divided into several chapters that are identical to the current price list and PC-/ System-Architect

Please follow the lines. If there is a junction, you can choose which way or component you would like to take. Go through the configurator by following the lines from the top to the bottom.



In one chapter you can only select as many components (here 4x) as the arrow indicates.



Please note that there are information symbols which indicate necessary information.



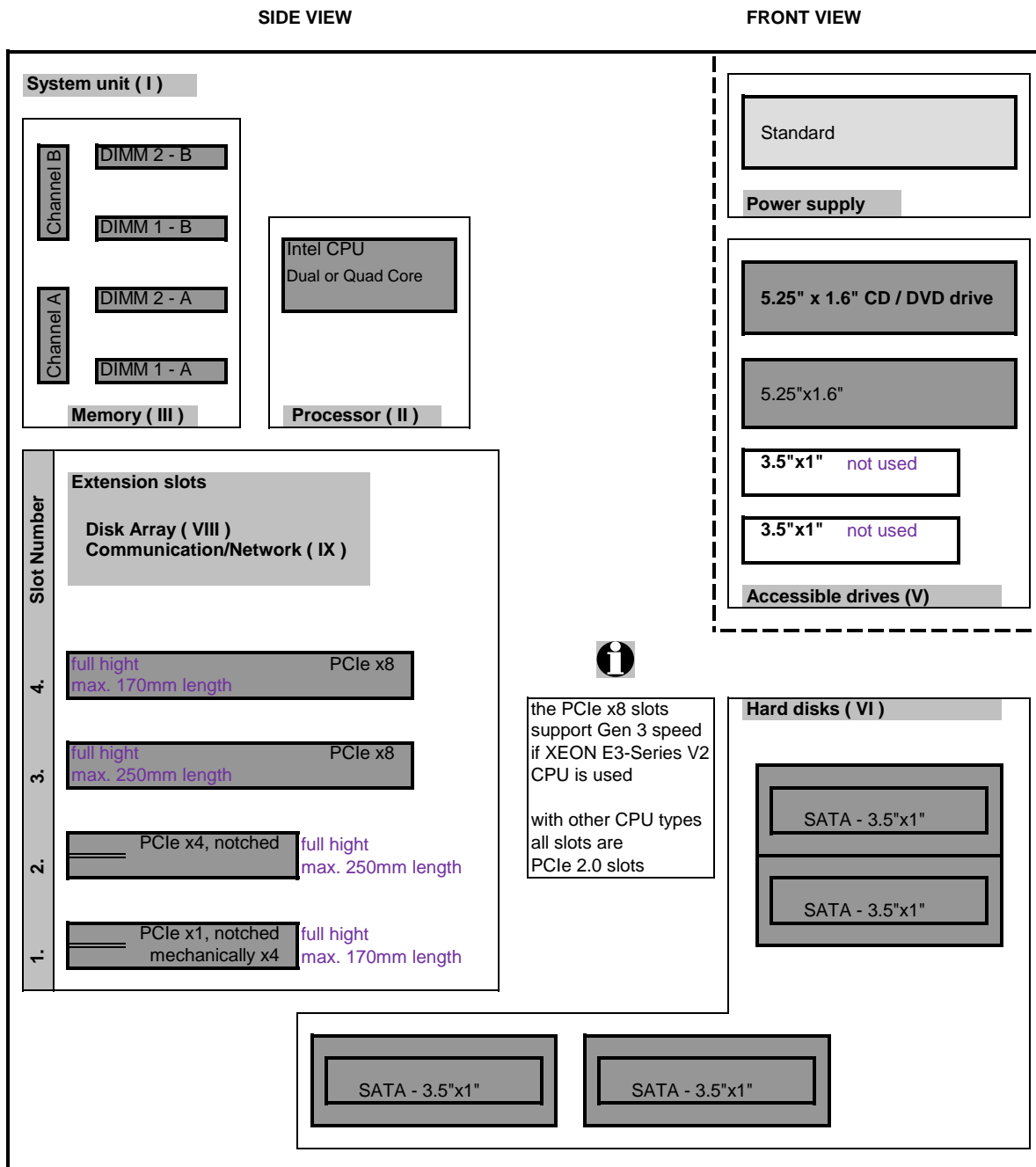
For further information see:

http://ts.fujitsu.com/products/standard_servers/index.html (internet)

https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

Prices and availability see price list and PC-/ System-Architect
Subject to change and errors excepted

Configuration diagram PRIMERGY TX100 S3p



Key:

- Included in basic unit
- Option

Start PRIMERGY TX100 S3p

Software Configurator 32 bit

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

VMware-Software
- VCMS VirtualCenter Management Server

OEM-SW is bound to HW and is not allowed to be ordered separately.
Exception: VMware SW



For all SW products please refer to the corresponding software configurator accessible via the Extranet under Configuration & Tools, -All configurations, -Software, URL see below.

Linux - Software **)
 - Open Enterprise Server (***)
 - SuSE Linux ES (OEM): LO
 - SuSE Linux ES (Support): LS
 - Red Hat EL (OEM): LO
 - Red Hat EL (Support): LS

Microsoft - Windows Server 2008: W
 - Windows Web Server 2008
 - Windows Server 2008 Standard, Enterprise
 - User, Device Client Access Licenses (CAL)
 - Terminal Server Client Access Licenses (CAL)

Manageability Software: V)**
- Altiris Server Deployment



Details eg. version numbers are published in the separate SW-Configurator

Backup-Software / Application-Software: U
 - ARCserve
 - openSM2



** Pay attention to release and order information in PRINCE -> Operating System
<https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx>

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: <http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx>
 for partners: <https://partners.ts.fujitsu.com/com/products/servers/primergy/Pages/default.aspx>

Continue with PRIMERGY
HW configurator

Start PRIMERGY TX100 S3p


Software Configurator 64 bit

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

VMware-Software
- VCMS VirtualCenter Management Server


OEM-SW is bound to HW and is not allowed to be ordered separately.

 For all SW products please refer to the corresponding software configurator accessible via the Extranet under "Configuration & Tools, -All configurations, -Software, URL see below.

Microsoft - Windows Server 2008: W
 - Windows Web Server 2008
 - Windows Server 2008 Standard, Enterprise
 - User, Device Client Access Licenses (CAL)
 - Terminal Server Client Access Licenses (CAL)

Linux - Software *) **)
only x86_64
 - SuSE Linux ES (OEM): LO
 - SuSE Linux ES (Support): LS
 - Red Hat EL (OEM): LO
 - Red Hat EL (Support): LS

Microsoft - Windows Small Business Server 2008: ROK
 - Windows Small Business Server 2008 Standard, Premium
 - User, Device Client Access Licenses (CAL)

 Details eg. version numbers are published in the separate SW-Configurator

 **) Pay attention to release and order information in PRINCE -> Operating System
<https://partners.ts.fujitsu.com/com/products/servers/primerq/Pages/default.aspx>

You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:

for internal users: <http://sp.ts.fujitsu.com/dmsp/docs/osrel.xlsx>
 for partners: <https://partners.ts.fujitsu.com/com/products/servers/primerq/Pages/default.aspx>

Continue with PRIMERGY HW configurator

Start PRIMERGY TX100 S3p

Section | Basic unit



System unit consisting of:

- * Housing including standard power supply (no redundancy)
- * Imprint of MAC Address on system label and delivery note as standard
- * heat sink for CPU

Systemboard with:

* 4 PCI expansion slots:

- 1x PCIe x1, mechanically x4, notched (possible to plug x16 cards)
- 1x PCIe x4, notched; fits for lp (low profile) and fh (full high) formfactor cards
- 2x PCIe x8
- all slots are PCIe 2.0 slots; PCIe 1.0 cards are fully supported as well

* Slot for optional TPM module

- * 4 memory slots for up to **32GB** (1066MHz PC3 8500 / 1333MHz PC3 10600) unbuffered DDR III RAM (ECC)
max. **8GB** modul per slot

* 2 bays 5.25" for accessible drives

* 4 LFF (3.5" Large Form Factor) bays 1" high for no hot plug SATA HD

* SATA controller with up to 4 HDD's using Intel **C202 Chipset**

* ATI ES1000 64MB

- 1600 x 1200 pixel with 16 bit colours and 75 Hz
- 1280 x 1024 pixel with 16/32 bit colours and 120/75 Hz
- 1152 x 864 pixel with 16/32 bit colours and 160/100Hz
- 1024 x 768 pixel with 16/32 bit colours and 200/120Hz
- 800 x 600 and 640 x 480 pixel with 32 bit colours and 200Hz

* Intel 10/100/1000 Mb/s ("Lewisville" **82579LM**) on-board LAN

* Intel 10/100/1000 Mb/s ("Hartwell" **82574L**) on-board LAN supporting **WoL, PXE and iSCSI boot**

Cables included in Base Unit:

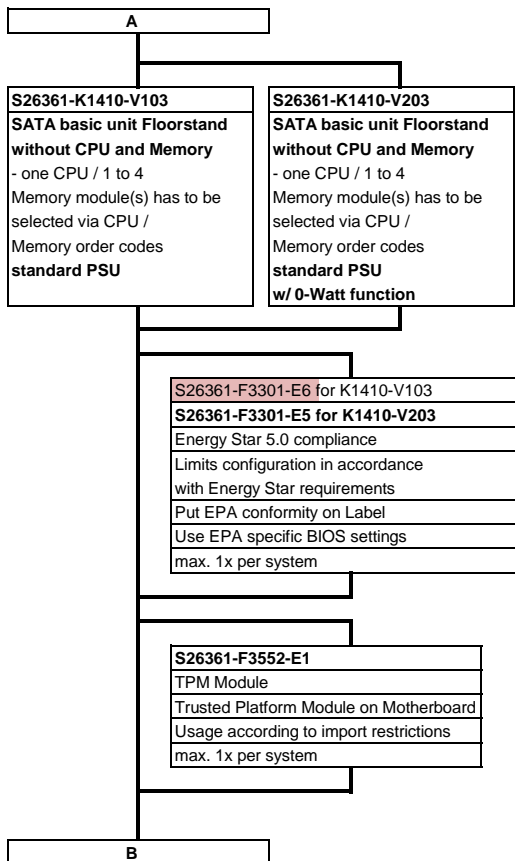
1. SATA cabel for CD/DVD
2. **4 x SATA cabel** in basic unit (depends on base unit)

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

External Interfaces:

- 1x RS-232-C (serial, 9 pins)
- 1x VGA (15 pins)
- 10x USB 2.0 (2x frontside, 4x rearside, 2x internal for backup devices, 1x internal USB Stick, 1x internal USSD / UFM)
- 2x LAN RJ45

A



The difference between TX100 S3 and TX100 S3p is only the CPU Support

TX100 S3p is needed for Ivy Bridge Processors.

on special release only for 220V



Be aware of configuration Limits for Energy Star Configuration

Additional LAN Card is not supported. -> Use only on-board LAN.
 Additional Graphic Card is not supported. -> Use only on-board graphics.
 Max. 2HDD.
 No SAS RAID Controller + iBBU. (V103 - Base Unit only)
 If you need SAS RAID Controller use 0-Watt base unit (V203).



Be aware of import restrictions!

Only 1 TPM per system.

Loose delivery for later integration possible for customer.

S26361-F3552-L1
TPM Module add-on kit
for later integration (loose delivery)
Trusted Platform Module on Motherboard
Usage according to import restrictions
max. 1x per system

B

Section II Processor

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

Dual-Core CPU's	
- 1x 64-bit Intel Celeron (2MB SLC), Pentium (3MB SLC) or Core-i3 (3MB TLC) occupies socket for one CPU	
Celeron	
Celeron G550 2.60GHz 2MB 2C/2T 1066MHz (65W)	S26361-F3579-E255
Celeron G1610 2.60GHz 2MB 2C/2T 1333MHz (55W)	S26361-F3580-E216
Pentium	
Pentium G640 2.80GHz 3MB 2C/2T 1066MHz (65W)	S26361-F3579-E264
Pentium G2120 3.10GHz 3MB 2C/2T 1600MHz (55W)	S26361-F3580-E221
Core i3	
Core i3-3220 3.30GHz 3MB 2C/4T 1333MHz (55W)	S26361-F3580-E222
Quad-Core XEON CPU's	
- 1x 64-bit Intel Xeon UP (8MB shared TLC = Third Level Cache) Hyper-Threading; 1600 MHz DDR3 Bus and heat pipe occupies socket for one CPU	
Xeon E3-1220v2 3.10GHz 8MB 4C/4T 1600MHz Turbo (69W)	S26361-F3580-E322
Xeon E3-1230v2 3.30GHz 8MB 4C/8T 1600MHz Turbo (69W)	S26361-F3580-E323
Xeon E3-1240v2 3.40GHz 8MB 4C/8T 1600MHz Turbo (69W)	S26361-F3580-E324

on special release
 on special release

on special release

Section III Memory

i 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. 32GB unbuffered DDR3 RAM for UDIMMs with 8GB modules
Note:** Memory is not included in the base unit and has to be configured separately, min 1x.

Unbuffered (ub) DIMMs

4x

- One DDR3-ub ECC memory module, 1.5V	
Memory 2GB 1600 MHz	S26361-F3719-E513
Memory 4GB 1600 MHz	S26361-F3719-E514
Memory 8GB 1600 MHz	S26361-F3719-E515
Choose up to 4 order codes above.	

Section IV Graphics

i Graphics Controller ATI ES1000 on board with 64 MB attached Memory

S26361-F2748-E537 PY VGA LP card 512MB PCI-e x1
NVIDIA NVS300 512 MB PCIe-x1 2x DVI or 2x VGA or 1x DVI plus 1x VGA cables adapters included
Dual head + fully 3-D supported for Windows OS only native driver support for Linux OS
full high bracket max. 1x per system

i The high end optional NVIDIA NVS300 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 delivery.
Remote Video direction via iRMC must be disabled.
 This PCIe-x1 card can also be installed in any PCIe-x4, x8 or x16 slot.
 Only one card per server is allowed.

PY VGA card must be installed in slot 2

S26361-F2748-L537 PY VGA LP card 512MB PCI-e x1 for loose delivery

C

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Section V Accessible drives



There are 2 drive bays (2x 5,25") for accessible drives.

S26361-F3266-E2 DVD-ROM 16/48x SATA incl. description (Ger/US) 1.6 x 5.25", black bezel max. 1x per system	S26361-F3267-E2 DVD-RW 16x super multi drive all formats, DUAL/DL, DVD-RAM SATA 1.6 x 5.25", black bezel max. 1x per system	S26361-F3641-E4 Blu-ray Triple Writer slim SATA 4x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats with mounting frame 0.5" -> 1.6" 1.6 x 5.25", black bezel max. 1x per system
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S26361-F3324-E4 Tape drive DDS Gen5 USB 5.25" 36GB, 3MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) data and cleaning cartridge 1.6 * 5.25", black bezel max. 1x per system	S26361-F3325-E4 Tape drive DDS Gen6 USB 5.25" 80GB, 6MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) data and cleaning cartridge 1.6 * 5.25", black bezel max. 1x per system
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C1


C1


USB 3.0 adapter & RDX

S26361-F3749-E1
USB3.0 PCIe x1 adapter card Sunrich U-720
PCIe x1
1 port intern, 1 port extern USB 3.0 A jacks
max. 1x per system


 The adapter is also available as optional (loose) delivery with FH and LP bracket included
S26361-F3749-L501


S26361-F3750-E4
RDX Drive USB3.0 5.25" internal 100MB/s, USB 3.0
Connector: USB 3.0 "B" with USB cable
without RDX cartridges
1.6 * 5.25", black bezel
max. 1x per system

 RDX cartridges must be ordered separately
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600
 10x RDX320 = S26361-F3857-L329


 The drive is also available as optional (loose) delivery
 S26361-F3750-L4 with USB3.0 cable for adapter card.
 The USB3.0 Adapter card or the USB2.0 cable set
 S26361-F3750-L20 must be ordered with the drive!


S26361-F3750-E324
RDX 320 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B" with USB3.0 cable
with 320GB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

 additional RDX cartridges can be ordered
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600
 10x RDX320 = S26361-F3857-L329


 The bundle is also available as optional (loose) delivery
 S26361-F3750-L324 with USB3.0 cable for adapter card.
 The USB3.0 Adapter card or the USB2.0 cable set
 S26361-F3750-L20 must be ordered with the drive!


S26361-F3750-E504
RDX 500 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B" with USB3.0 cable
with 500GB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

 additional RDX cartridges can be ordered
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600
 10x RDX320 = S26361-F3857-L329

 The bundle is also available as optional (loose) delivery
 S26361-F3750-L504 with USB3.0 cable for adapter card.
 The USB3.0 Adapter card or the USB2.0 cable set
 S26361-F3750-L20 must be ordered with the drive!

S26361-F3750-E604
RDX 1000 5.25"
100MB/s, USB 3.0
Connector: USB 3.0 "B" with USB3.0 cable
with 1TB RDX cartridge
1.6 * 5.25", black bezel
max. 1x per system

 additional RDX cartridges can be ordered
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600
 10x RDX320 = S26361-F3857-L329

 The bundle is also available as optional (loose) delivery
 S26361-F3750-L604 with USB3.0 cable for adapter card.
 The USB3.0 Adapter card or the USB2.0 cable set
 S26361-F3750-L20 must be ordered with the drive!

D

D

Section VI RAID-Controller

i TX100 S3p does not support SAS HDD:
- for use with **SATA HDD only**

i S26361-F3669-E2/E3 does not support
3.5" ECO SATA HDD (S26361-F3701-E250/E500)

i For S26361-F3669-E3
UEFI Firmware >= R1.8.0
is required

<p>S26361-F3554-E512 8 port SAS RAID Controller</p> <p>LSI MegaRAID SAS 2108 512MB Cache with ECC SAS 6Gb/sec 8 internal ports PCIe x8, 168mm with combi bracket max. 1x per system</p>	<p>i For later upgrade to RAID you need to order S26361-F3554-L512 with the additional RAID cable TX100 S3p S26361-F3659-L2</p>	<p>as long as available</p> <p>S26361-F3669-E2 RAID Ctrl SAS 6G 1GB (D3116) Based on chip LSI SAS2208 LSI MegaRAID 1GB Cache with ECC RAID 0, 1, 10, 5, 50, 6, 60 optional FBU Support for 3Gb/s and 6Gb/s SATA and SAS hard drives PCIe x8 Low-profile MD2 form factor max. 1x per system</p>	<p>as soon as available</p> <p>S26361-F3669-E3 RAID Ctrl SAS 6G 1GB (D3116C) Based on chip LSI SAS2208 LSI MegaRAID 1GB Cache with ECC RAID 0, 1, 10, 5, 50, 6, 60 optional FBU Support for 3Gb/s and 6Gb/s SATA and SAS hard drives PCIe 3.0 x8 Low-profile MD2 form factor max. 1x per system</p>
<p>S26361-F3257-E255 Cache Battery Backup Unit max. 1x per Controller</p>	<p>i L-Order-Number is: S26361-F3257-L210</p>	<p>S26361-F3669-E100 TFM Module for FBU option max. 1x per Controller</p>	<p>i The FBU is an option for the controller which can be used once per controller. If the FBU option has been chosen, the TFM Module is needed once per FBU. For loose delivery of TFM & FBU please order: S26361-F3669-L100 TFM Module for FBU and S26361-F3669-L110 Flash Backup Unit with 25cm, 55cm, 70cm cable set</p>
<p>i Advanced Software Option as soon as available S26361-F3669-L660 RAID Advanced Software Options License Activation Key for CacheCade 2.0 and FastPath for 1 Controller</p>	<p>as soon as available</p> <p>S26361-F3669-E125 Flash Backup Unit with 25cm cable set max. 1x per Controller</p>	<p>as soon as available</p> <p>S26361-F3669-E660 RAID Advanced Software Options License Activation Key for CacheCade 2.0 and FastPath for 1 Controller</p>	

Section VII Hard disk drives

i There is a 6 port SATA controller in the Base Unit.
Up to 4 SATA LFF (3.5") hard disks can be configured.

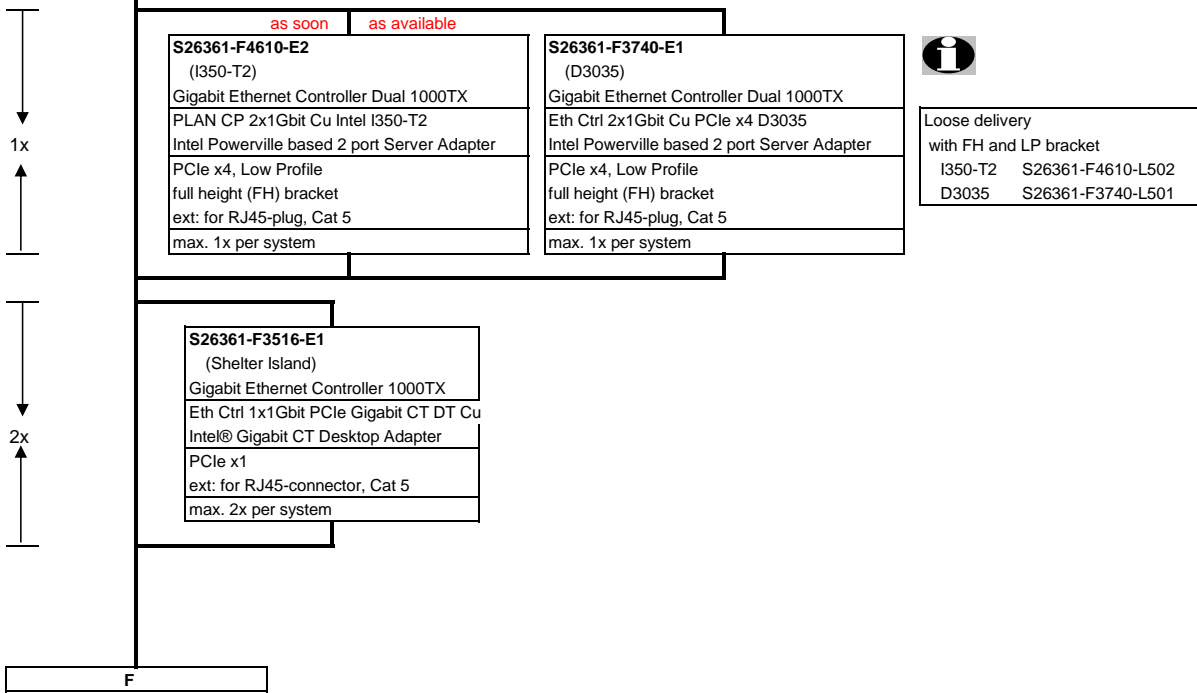
4x

ECO SATA 6Gb/s HD 3.5" non hot plug	
250GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3701-E250
500GB 7.200rpm,<9,0ms, 8MB Cache	S26361-F3701-E500
Choose up to 4 order codes above.	
Business Critical (BC) SATA 6Gb/s HD 3.5" non hot plug	
500GB 7.200rpm,<9,0ms, 64MB Cache	S26361-F3671-E500
1000GB 7.200rpm,<9,0ms, 64MB Cache	S26361-F3671-E100
2000GB 7.200rpm,<9,0ms, 64MB Cache	S26361-F3671-E200
3000GB 7.200rpm,<9,0ms, 64MB Cache	S26361-F3671-E300
Choose up to 4 order codes above.	

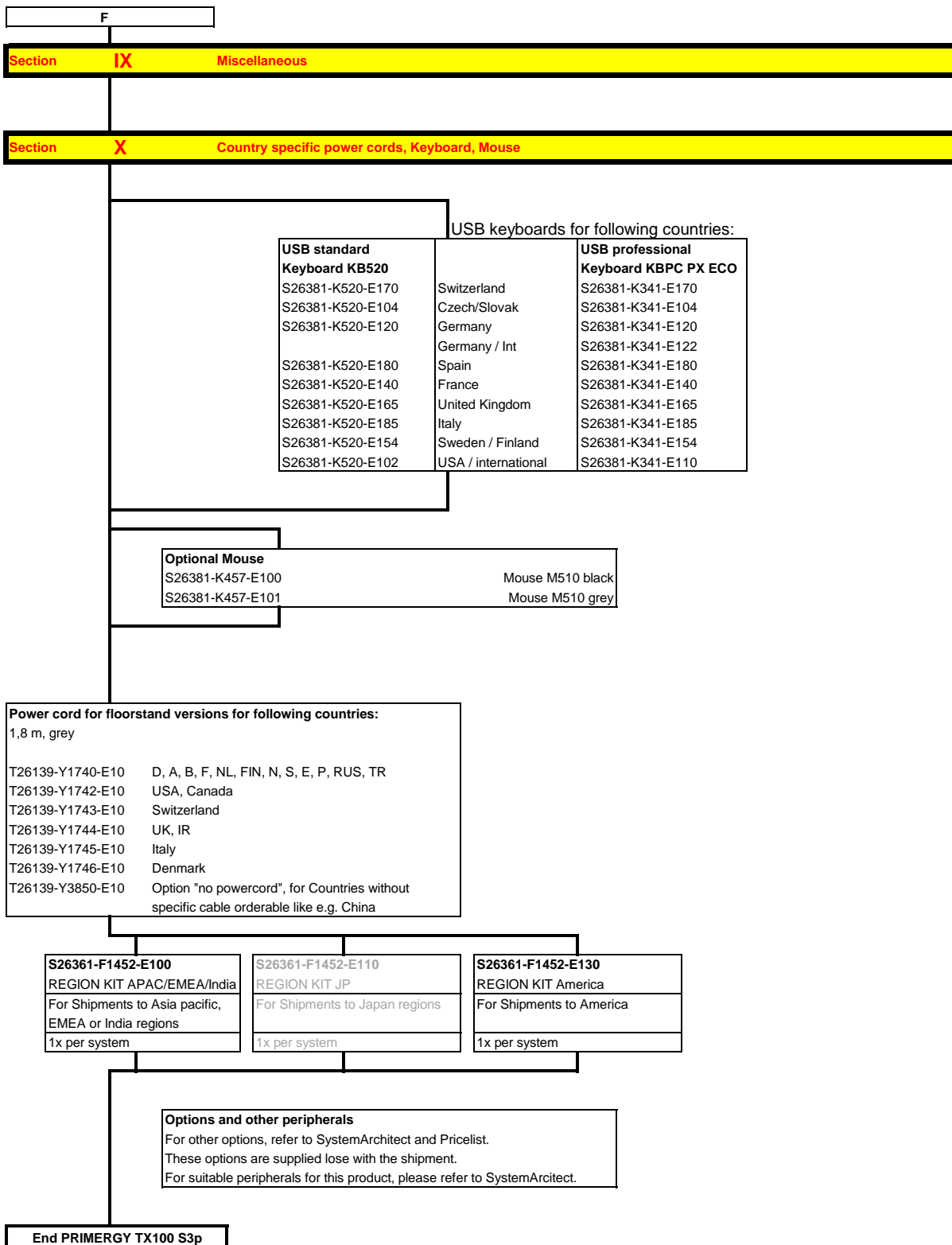
E

E

Section VIII Communication / Network



F



Change Report

Date	Order number	Changes
2013-10-18	Optional USB Comps	no longer available
2013-05-21	S26361-F3671-E*	HDD description updated.
2013-05-21		Restriction for 3.5" ECO SATA HDD with RAID Ctrl SAS added.
2013-03-25	S26361-F3669-E660/L660	RAID advanced SW options added
2013-03-25	S26361-F3669-E3	RAID Ctrl SAS 6G 1GB (D3116C) added
2013-03-25	S26361-F3857-E4	removed due to EOL
2013-03-14	S26361-F3750-E324/504/E604	RDX & Cartridge bundles added
2013-02-15	S26361-F3580-E2xx	Added Celeron/Pentium Processor
2013-01-14	S26361-F3750-L20	Hint for "RDX Drive USB2.0 cable set" added
2012-12-07		new keyboard numbers introduced
2012-12-07		new mouse numbers introduced
2012-11-22	F3749-E4 and F3750-E4	"as soon as available" removed
2012-11-22	S26361-F3857-E4	"as long as available" added
2012-10-08	S26361-F3749-Exx	Added RDX Drive
2012-10-08	S26361-F3750-Ex	Added USB3.0 Adapter
2012-08-24	S26361-F3669-E2	Cougar3 order number changed from E1 to E2
2012-07-16	S26361-F3857-L160/L169	RDX Cartridge 160GB is EOL => removed
2012-04-27		Removed Core Edition Variants
2012-04-02	S26361-F3579-E264	Added new Pentium and Celeron CPU
2012-03-30		First Release