

# PRIMERGY TX140 S2

***System configurator and order-information guide***

**February 2015**

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**PRIMERGY Server**

# Instructions

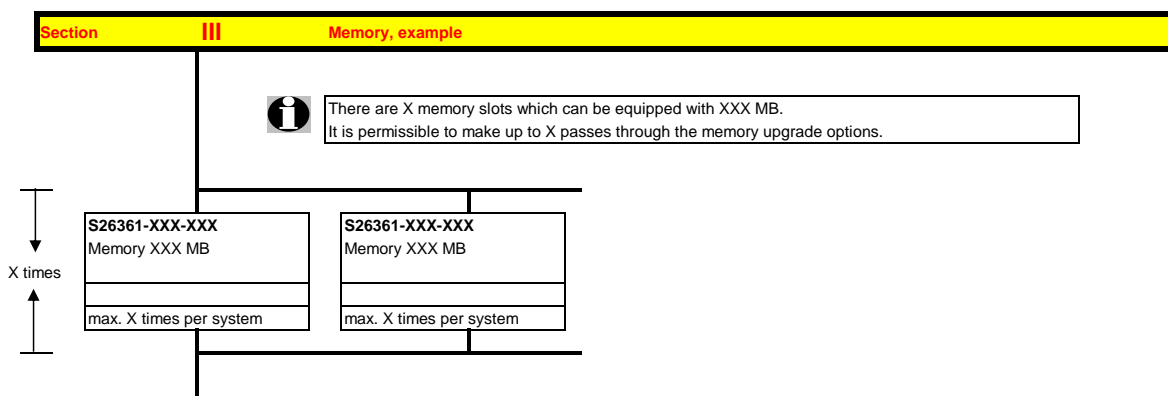
This document contains basic product and configuration information that will enable you to configure your system via PC-/ System-Architect.

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

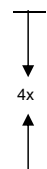
You can configure your individual PRIMERGY server in order to adjust your specific requirements.

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.



**Further information in the internet see:**

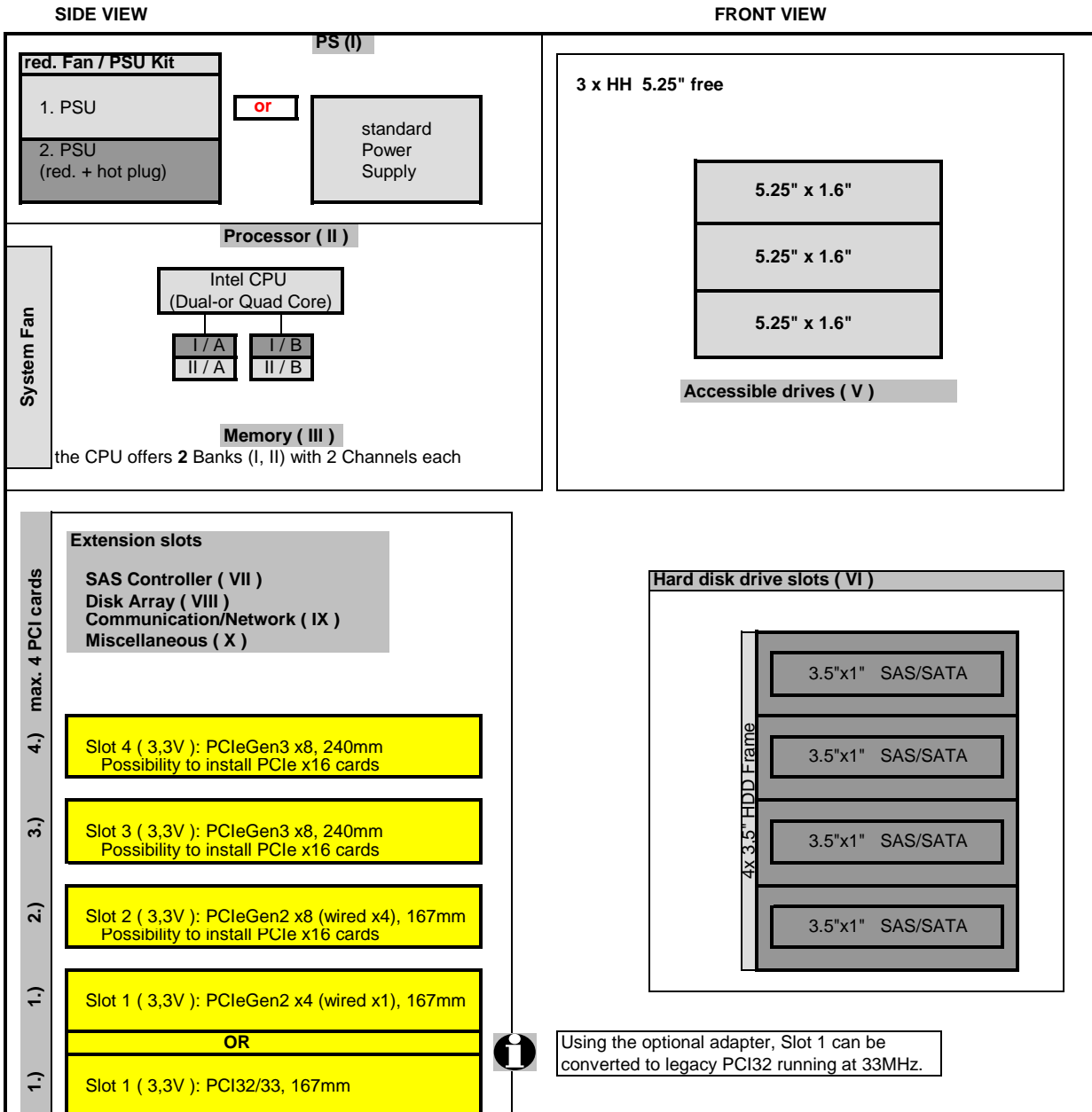
[http://ts.fujitsu.com/products/standard\\_servers/index.html](http://ts.fujitsu.com/products/standard_servers/index.html) (internet)

[https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy\\_config/current/Pages/default.aspx](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 TX140 S2 LFF (3.5") System Unit

### System unit ( I )



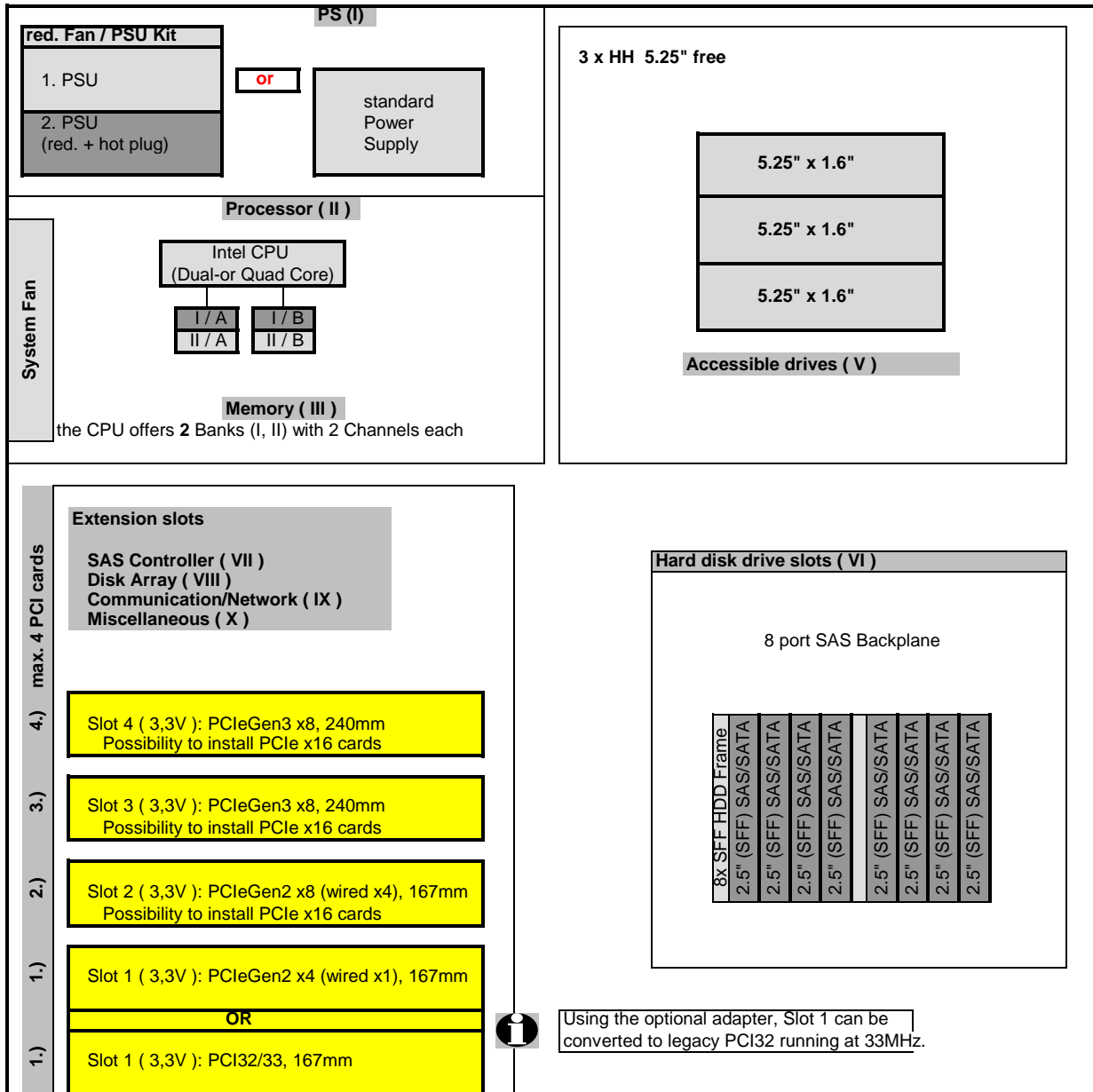
- Included in basic unit
- Option

## Configuration diagram PRIMERGY TX140 S2 SFF (2.5") System Unit

### System unit ( I )

#### SIDE VIEW

#### FRONT VIEW



- Included in basic unit
- Option


Start PRIMERGY TX140 S2

**SW Configurator EM64T**

with OEM-Software  
for PRIMERGY Server

without OEM-Software  
for PRIMERGY 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.

only EM64T	<b>Microsoft - Software: W</b>
	- Windows Server 2008, Standard x64 Edition Enterprise x64 Edition - Additional loose Client-Access-Lizenzen (CALs)

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

<b>Manageability Software: V**)</b>
- iRMC2 advanced Pack - RemoteDeploy

 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/primergy/Pages/default.aspx>

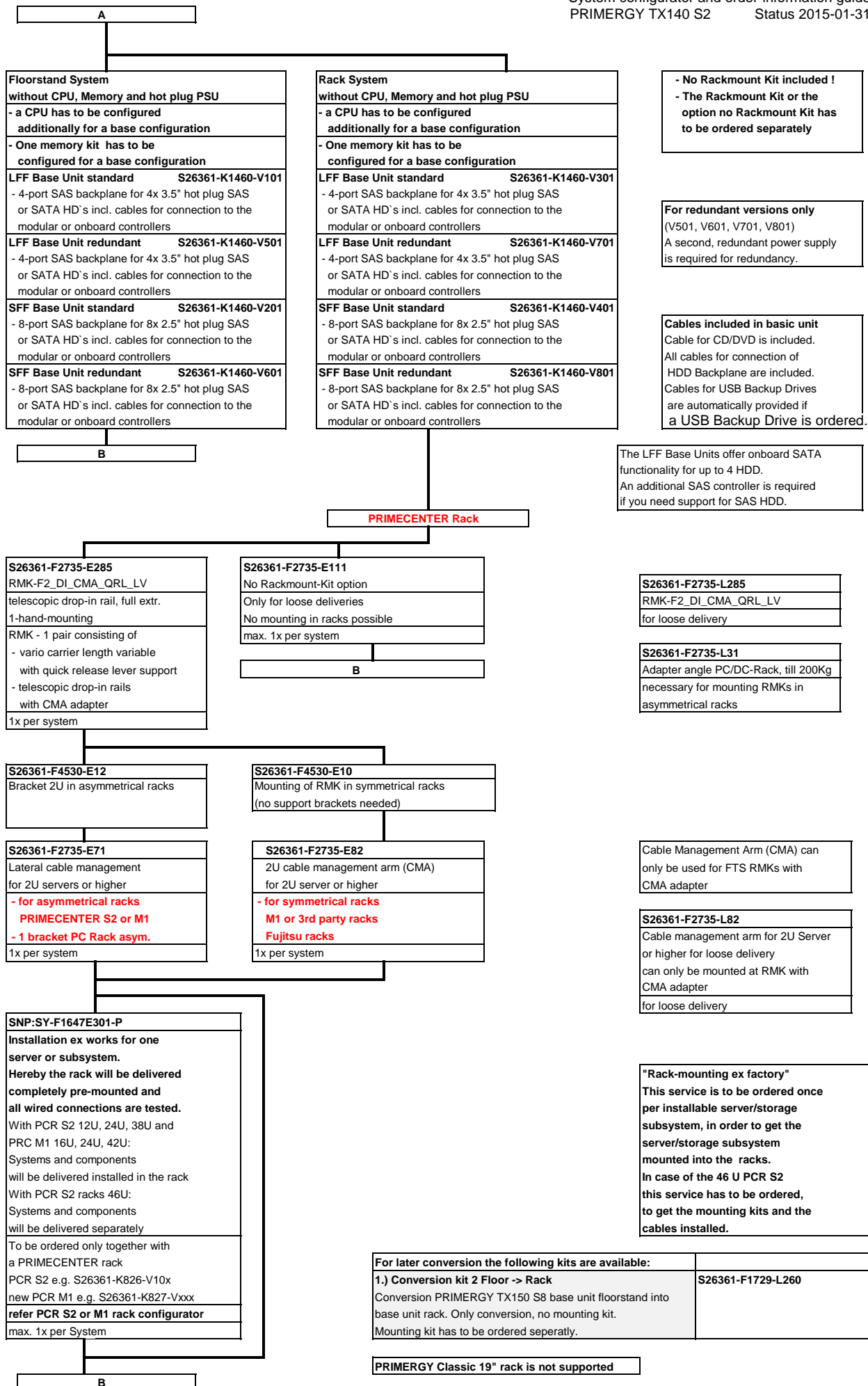
**You'll find single software configurators and release lists (OS-matrix / system management / security) under following addresses:**

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

**System unit, Rack and Floorstand, including:**

- \* **Two lockable front covers in floorstand version**
    - Door #1 for accessible drive bays
    - Door #2 for hot plug HDD bays
    - Both doors may be locked or door #1 may be left open while door #2 is still locked
  - \* **backplane with 4 (LFF) or 8 (SFF) bays for hot-plug HD's. Type depending on base unit:**
    - Type 1: 4x hot plug LFF (3.5") SAS/SATA HDD (SAS/SATA LFF base units only)
    - Type 2: 8x (2x4) hot plug SFF (2.5") SAS HDD (SAS SFF base units only)
  - \* **standard PSU (hot plug redundant PSU option available)**
  - \* **System fan (No hot-plug, no redundancy)**
  - \* **3 bays 5.25" for accessible drives (half Hight)**
    - Systemboard D3239 with:
  - \* **heat pipe for the CPU**
  - \* **Chipset Intel® C224 (codenamed Denlow Lynx Point Standard)**
  - \* **4 PCI slots:**
    - 2 x PCIe x8 Gen3
    - 1 x PCIe x4 (x8 connected) Gen2
    - 1 x PCIe x1 (x4 connected) Gen2 or optional 1 x 32Bit / PCI 33MHz, ( 5V )
  - \* **4 memory slots for max. 32GB with 4x 8GB unbuffered DDR3 RAM**
    - Memory is divided into 4 DIMMs ( 2 channels with 2 slots per channel )
    - First Memory ( one module ) has to be selected for an orderable basic unit
    - Memory upgrade is possible module wise
    - SDDC (Chipkill) is not supported
  - \* **SATA-Controller on board (supporting RAID 0/1/10)**
  - \* **2x1 Gbit Ethernet LAN on board ( Intel Springville and Intel Clarkville ) with ToE;**
    - and iSCSI boot integrated in System BIOS as selectable option
  - \* **iRMC S4 (integrated Remote Management Controller) on-board server management controller**
    - with dedicated 10/100/1000 Management LAN-port and
    - integrated graphics controller ( max. Resolution: 1600 x 1200 at 16 bpp)
- Interfaces:**
- \* 1x RS-232-C (9-pin) (usable for BMC or OS or shared)
  - \* 1x VGA (15 pin)
  - \* 6x USB 2.0 ( UHCI ) with 480MBit/s (4x external at the rear, 2x internal for UFM or backup device, no USB wakeup)
  - \* 4x USB 3.0 ( UHCI ) with 5 GBit/s (2x external at the rear, 2x external at the frontside)
  - \* 2x LAN RJ45, 1x Service-LAN RJ45 switchable
- \*internal Cables:**
1. SATA cable for BD/DVD.
  2. Cable for HDD Backplane
- \* **ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates**
  - \* **Documentation engl. (multilingual on CD)**



**B**

<b>S26361-F3552-E1</b>
TPM Module
Trusted Platform Module on Motherboard
Use according to import restrictions
max. 1x per system

Be aware of import restrictions!  
 Only 1 TPM per system.  
 Loose delivery for later integration possible for customer.

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

<b>S26361-F5266-E1</b>
<b>PCIe to PCI32 converter</b>
for installing legacy PCI controller cards
full height bracket
max. 1x per system

<b>S26113-F575-E10</b>
<b>2nd Power supply 450W (hot plug)</b>
occupies one bay for hot plug power supply
max. 1x per system

**For redundant Base Units only**  
 (V501, V601, V701, V801)

**For redundant floorstand versions only**  
 (V501 and V601)  
 A second, redundant power supply requires an additional country specific power cord (section XIII)

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

<b>1 power supply module 450W hot plug:</b>	<b>S26113-F575-L10</b>
Supplementary module	
Attention: There is no power cable included!	

<b>Std to Redundant PSU Upgrade Kit</b>	<b>S26361-F3699-L2</b>
consisting of a redundant PSU cage and backplane	
Does contain one PSU module	

**Section II Processor**

<b>One of following CPU's has to be selected for an orderable basic unit</b>
<b>Dual-Core CPU's</b>
- 1x 64-bit Intel Pentium (3MB SLC) or Core-i3 (3MB TLC) occupies socket for one CPU
<b>Pentium</b>
Pentium G3420 3.2GHz 2C/2T 3MB 1600MHz (54W) <b>S26361-F3581-E232</b>
<b>Core i3</b>
Core i3-4330 3.5GHz 2C/4T 4MB 1600MHz (54W) <b>S26361-F3581-E243</b>
<b>Quad-Core XEON CPU's</b>
- 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 E3-1220v3 3.1GHz 4C/4T 8MB 1600MHz Turbo (80W) <b>S26361-F3581-E322</b>
Xeon E3-1230v3 3.3GHz 4C/8T 8MB 1600MHz Turbo (80W) <b>S26361-F3581-E323</b>
Xeon E3-1240v3 3.4GHz 4C/8T 8MB 1600MHz Turbo (80W) <b>S26361-F3581-E324</b> on special release
Xeon E3-1270v3 3.5GHz 4C/8T 8MB 1600MHz Turbo (80W) <b>S26361-F3581-E327</b>
Xeon E3-1280v3 3.6GHz 4C/8T 8MB 1600MHz Turbo (82W) <b>S26361-F3581-E328</b> on special release
<b>Xeon E3-12xxL Power Optimized</b>
- 1x 64-bit Intel Xeon LV UP (8MB shared TLC = Third Level Cache) Hyper-Threading (HT); 1600 MHz DDR3 Bus and heat pipe occupies socket for one CPU
Xeon E3-1265Lv3 2.5GHz 4C/8T 8MB 1600MHz Turbo (45W) <b>S26361-F3581-E316</b>

**Section III Memory**

There are 4 memory slots to be used for max. 4 unbuffered DIMMS.  
 => max. 32GB unbuffered DDR3 RAM for UDIMMs with 8GB modules

**Minimum one memory module or order code = first memory**

Unbuffered (ub) UDIMMs	
- One <b>DDR3- ub</b> ECC memory module, 1.35V	
4x	4GB (1x4GB) 2Rx8 L DDR3-1600 U ECC <b>S26361-F3777-E514</b>
	8GB (1x8GB) 2Rx8 L DDR3-1600 U ECC <b>S26361-F3777-E515</b>
Choose up to 4 order codes above.	

**C**



C

**Section IV Graphics**

Graphics controller integrated in iRMCS3 (integrated Remote Management Controller)  
 ( max. Resolution: 1600 x 1200 at 16bpp )

**S26361-F2748-E537**  
 PY VGA 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  
 full height bracket  
 max. 1x per system

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

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.**  
 Only one card per server is allowed.

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

D

**Section V Energy Star**

**S26361-F3301-E242**  
 TX140S2 E-Star Fam2  
 for all 69W 4Core CPUs with std. PSU  
 Limits configuration in accordance  
 with Energy Star requirements  
 max. 1x per system



The following order components out of the specific sections sections are allowed together with TX140 S2 E-Star Fam2:

<b>Base Unit with red PSU</b>	<b>S26361-K1460-V501/601/701/801</b>
<b>CPU's</b>	
Pentium G3420 3.2GHz 2C/2T 3MB 1600MHz (54W)	<b>S26361-F3581-E232</b>
Core i3-4330 3.5GHz 2C/4T 4MB 1600MHz (54W)	<b>S26361-F3581-E243</b>
Xeon E3-1220v3 3.1GHz 4C/4T 8MB 1600MHz Turbo (80W)	<b>S26361-F3581-E322</b>
Xeon E3-1230v3 3.3GHz 4C/8T 8MB 1600MHz Turbo (80W)	<b>S26361-F3581-E323</b>
Xeon E3-1270v3 3.5GHz 4C/8T 8MB 1600MHz Turbo (80W)	<b>S26361-F3581-E327</b>
Xeon E3-1280v3 3.6GHz 4C/8T 8MB 1600MHz Turbo (82W)	<b>S26361-F3581-E328</b>
Xeon E3-1265Lv3 2.5GHz 4C/8T 8MB 1600MHz Turbo (45W)	<b>S26361-F3581-E316</b>
<b>Unbuffered (ub) UDIMMs (1.5V)</b>	
Memory 4GB 1600 MHz	<b>S26361-F3777-E514</b>
Memory 8GB 1600 MHz	<b>S26361-F3777-E515</b>
<b>DVD &amp; tape Drives</b>	
DVD-RW supermulti HH SATA	<b>S26361-F3267-E2</b>
Blu-ray Triple Writer slim SATA	<b>S26361-F3641-E4</b>
max. 1x per system	
<b>RAID Controller</b>	
RAID Ctrl. SAS 6G 5/6 512 MB (D2616)	<b>S26361-F3554-E512</b>
max. 1x each per system	
<b>LAN Controller</b>	
Gigabit Ethernet Controller 1000TX	<b>S26361-F3516-E1</b>
Gigabit Ethernet Controller Dual 1000TX	<b>S26361-F4610-E2</b>
max. 1x each per system	
<b>Hard Disk Drives 3.5" SATA</b>	
HD 250GB 7.2krpm 3.5"	<b>S26361-F3700-E250</b>
HD 500GB 7.2krpm 3.5"	<b>S26361-F3700-E500</b>
500GB 7.200rpm,<9,0ms, 8MB Cache	<b>S26361-F3670-E500</b>
1000GB 7.200rpm,<9,0ms, 8MB Cache	<b>S26361-F3670-E100</b>
2000GB 7.200rpm,<9,0ms, 8MB Cache	<b>S26361-F3670-E200</b>
3000GB 7.200rpm,<9,0ms, 8MB Cache	<b>S26361-F3670-E300</b>
4000GB 7.200rpm,<9,0ms, 8MB Cache	<b>S26361-F3670-E400</b>
max. 4x per system	
<b>Hard Disk Drives 3.5" SAS</b>	
1TB 7200rpm, <9,0ms, 32MB Cache	<b>S26361-F5241-E100</b>
2TB 7200rpm, <9,0ms, 32MB Cache	<b>S26361-F5241-E200</b>
3TB 7200rpm, <9,0ms, 32MB Cache	<b>S26361-F5241-E300</b>
4TB 7200rpm, <9,0ms, 32MB Cache	<b>S26361-F5241-E400</b>
max. 4x per system	
<b>Hard Disk Drives 2.5" SAS</b>	
300GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E130</b>
450GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E145</b>
600GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E160</b>
900GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E190</b>
max. 8x per system	
<b>SSD Drives 2.5" SATA (up to 4; may also be mounted in 3,5" adapter frames)</b>	
100GB, Mainstream Performance	<b>S26361-F5303-E100</b>
200GB, Mainstream Performance	<b>S26361-F5303-E200</b>
400GB, Mainstream Performance	<b>S26361-F5303-E400</b>
max. 8x per system	
<b>Others</b>	
iRMC S4 advanced pack	<b>S26361-F1790-E243</b>
max. 1x each per system	

D

**Section VI Accessible drives**

There are 3 bays (1.6" x 5.25") for accessible drives.

<b>S26361-F3266-E2</b> DVD-ROM HH SATA 16x DVD 48x CD 1.6 x 5.25", black bezel max. 1x per system	<b>S26361-F3267-E2</b> DVD-RW supermulti HH SATA all formats, DUAL/DL, DVD-RAM only W2K, W3K and Linux 1.6 x 5.25", black bezel max. 1x per system	<b>S26361-F3641-E4</b> Blu-ray Triple Writer slim SATA 4x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats 0.5" drive with mounting frame 1.6 x 5.25", black bezel max. 1x per system
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**internal backup devices**

<b>S26361-F3554-E118</b> PSAS CP200i Based on chip LSISAS2008 SAS 6Gb/sec int: 8 port PCIe 2.0 x8, max. 1 per system
--

For an internal SAS Backup drive  
 an additional SAS controller has to be configured  
 Data cartridges must be ordered seperately

1x

<b>S26361-F3626-E2</b> Tape drive LTO4 HH SAS IBM V2 800GB, 120MB/s, SAS 6Gb Connector: mini-SAS incl. SAS cable incl. cleaning cartridge without data cartridge 1.6 * 5.25" max. 1x per system	<b>S26361-F3627-E1</b> Tape drive LTO5HH Ultrium SAS 1500GB, 140MB/s, SAS 6Gb Connector: mini-SAS incl. SAS cable incl. description (Ger/US) data and cleaning cartridge 1.6 * 5.25" max. 1x per system	<b>S26361-F3787-E1</b> Tape drive LTO6HH Ultrium SAS 2500GB, 160MB/s, SAS 6Gb Connector: mini-SAS incl. SAS cable incl. cleaning cartridge without data cartridge 1.6 * 5.25" max. 1x per system
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**USB 3.0 adapter & RDX**

<b>S26361-F3749-E1</b> 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

<b>S26361-F3750-E4</b> 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

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**Section VII Hard disks drives**

**Configurations with Eco SATA can only be mixed with BC SATA HDD type**  
**SAS and BC SATA drives with the same size can be mixed, but not used in one logical RAID volume**

**SAS/SATA LFF (3.5") Base Units: SAS HDDs Require SAS Controller! see section VIII internal Disk Array**

There is a 6 port SATA controller in the Base Unit for connection of up to 4 SATA LFF hard disks  
 For up to 4 3.5" SAS hard Drives, you must configure 1 of 3 different 8port SAS controller

<b>HDD Business Critical (BC) SATA 6Gb/s HD 3.5" with hot plug/hot replace tray</b>	
500GB 7.200rpm,<9,0ms, 64MB Cache	<a href="#">S26361-F3670-E500</a>
1000GB 7.200rpm,<9,0ms, 64MB Cache	<a href="#">S26361-F3670-E100</a>
2000GB 7.200rpm,<9,0ms, 64MB Cache	<a href="#">S26361-F3670-E200</a>
3000GB 7.200rpm,<9,0ms, 64MB Cache	<a href="#">S26361-F3670-E300</a>
4000GB 7.200rpm,<9,0ms, 64MB Cache	<a href="#">S26361-F3670-E400</a>
<b>max. 4x per system</b>	

<b>HDD ECO SATA 6Gb/s 3.5" with hot plug/hot replace</b>	
250GB 7200rpm,<9,0ms, 16MB Cache	<a href="#">S26361-F3700-E250</a>
500GB 7200rpm,<9,0ms, 16MB Cache	<a href="#">S26361-F3700-E500</a>
<b>max. 4x per system</b>	

Mix of ECO SATA with SAS HDDs is not possible !

ECO SATA not supported with [S26361-F3669-E4](#)

4x

G

<b>HDD SAS 6Gb/s 3.5" with hot plug/hot replace tray</b>	
300GB 15000rpm,<4,5ms, 16MB Cache	<a href="#">S26361-F4005-E530</a>
450GB 15000rpm,<4,5ms, 16MB Cache	<a href="#">S26361-F4005-E545</a>
600GB 15000rpm,<4,5ms, 16MB Cache	<a href="#">S26361-F4005-E560</a>
1TB 7200rpm, <9,0ms, 32MB Cache	<a href="#">S26361-F5241-E100</a>
2TB 7200rpm, <9,0ms, 32MB Cache	<a href="#">S26361-F5241-E200</a>
3TB 7200rpm, <9,0ms, 32MB Cache	<a href="#">S26361-F5241-E300</a>
4TB 7200rpm, <9,0ms, 32MB Cache	<a href="#">S26361-F5241-E400</a>
<b>max. 4x per system</b>	

configuration of SAS-HDDs requires SAS RAID controller

<b>SSD SATA 6Gb/s with 3.5" hot plug/hot replace tray</b>	
100GB	<a href="#">S26361-Fxxxx-Exxx</a>
200GB	<a href="#">S26361-Fxxxx-Exxx</a>
400GB	<a href="#">S26361-Fxxxx-Exxx</a>
800GB	<a href="#">S26361-Fxxxx-Exxx</a>
<b>max. 4x per system</b>	

as soon as available  
 as soon as available  
 as soon as available  
 as soon as available

G

G

**SAS / SATA SFF (2.5") Base Units: SAS or more than 4 SATA HDDs require a SAS Controller! see section VIII**

Up to 4 SATA SFF (2.5") hard disks can be configured without a PCI SAS controller.  
 Up to 8 SAS or SATA SFF (2.5") hard disks can be configured as standard together with a SAS controller.

**S26361-F2826-E140**  
 Trigger to request a PCI SAS Controller for configuring more than 4 SATA HDDs max. 1x per system

For a later configuration of more than 4 SATA HDDs, the trigger is not necessary  
 In this case it is sufficient to implement a SAS controller!  
 It is not allowed to connect the SATA HDDs to different controllers  
 In case of running more than 4 HDDs, all of them have to be connected to the PCI based Controller

**Solid State Disk, Mainstream Endurance\***

<b>SSD SATA 6Gb/s 2.5" with hot plug/hot replace tray</b>	
100GB MLC, Mainstream Performance	<b>S26361-F5225-E100</b>
200GB MLC, Mainstream Performance	<b>S26361-F5225-E200</b>
400GB MLC, Mainstream Performance	<b>S26361-F5225-E400</b>
100GB, Mainstream Performance	<b>S26361-F5303-E100</b>
200GB, Mainstream Performance	<b>S26361-F5303-E200</b>
400GB, Mainstream Performance	<b>S26361-F5303-E400</b>
800GB, Mainstream Performance	<b>S26361-F5303-E800</b>
<b>max. 8x per system</b>	

as long as stock  
 as long as stock  
 as long as stock  
 as soon as available  
 as soon as available  
 as soon as available  
 as soon as available

\*) SSD Mainstream Endurance  
 10DWPD over 5y

<b>Business Critical (BC) SATA 6Gb/s HD 2.5" with hot plug/hot replace tray</b>	
250GB 7.200rpm,<9,5ms, 64MB Cache	<b>S26361-F3708-E250</b>
500GB 7.200rpm,<9,5ms, 64MB Cache	<b>S26361-F3708-E500</b>
1000GB 7.200rpm,<9,5ms, 64MB Cache	<b>S26361-F3708-E100</b>
<b>max. 8x per system</b>	

8x

<b>Business Critical (BC) SAS 6Gb/s HD 2.5" with hot plug/hot replace tray</b>	
500GB 7.200rpm,<9,5ms, 64MB Cache	<b>S26361-F5228-E500</b>
1TB 7.200rpm,<9,5ms, 64MB Cache	<b>S26361-F5228-E100</b>
<b>max. 8x per system</b>	

configuration of  
 SAS-HDDs requires  
 SAS RAID controller

<b>SAS 6Gb/s 2.5" with hot plug/hot replace tray</b>	
300GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E130</b>
450GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E145</b>
600GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E160</b>
900GB 10000rpm,<4,5ms, 32MB Cache	<b>S26361-F5247-E190</b>
1200GB 10000rpm,<4,5ms, 64MB Cache	<b>S26361-F5247-E112</b>
<b>max. 8x per system</b>	
146GB 15krpm,<4,5ms, 32MB Cache	<b>S26361-F4482-E514</b>
300GB 15krpm,<4,5ms, 32MB Cache	<b>S26361-F4482-E530</b>
450GB 15krpm	<b>S26361-Fxxxx-Exxx</b>
600GB 15krpm	<b>S26361-Fxxxx-Exxx</b>
<b>max. 8x per system</b>	

as soon as available  
 as soon as available  
 as soon as available

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**Section VIII External SAS Disk Array**

**Section IX Internal Disk Array**

**SATA Configuration**

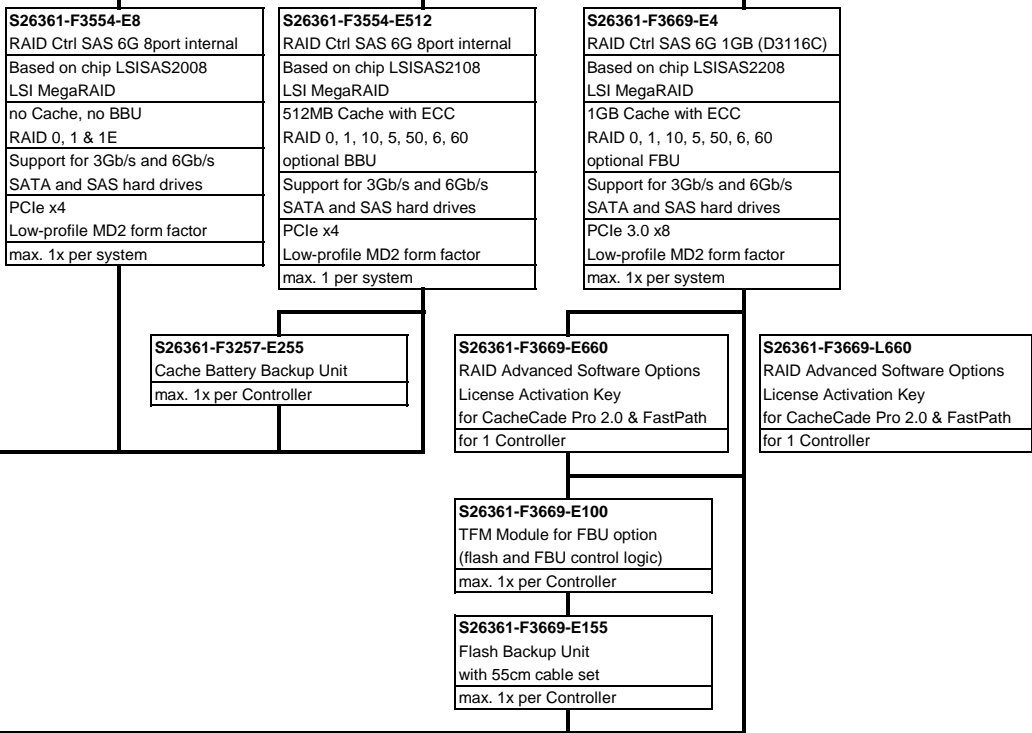
**i** SATA Base Units contain a 6-port on-board SATA controller supporting RAID Levels 0, 1, 10

**SAS Configuration**

**i** you can choose between 3 types of 8 port SAS controller for the Base Unit:  
 - LSI 2008 based Modular RAID 0,1 (IME)  
 - LSI 2108 based Modular RAID 5,6  
 - LSI 2208 based Modular RAID 5,6  
 if you want to use SAS harddisks or more than 4 harddisks, then one Controller is required  
 On special request based on customising projects up to 2 SATA 2.5" SSDs can be configured without a controller  
 S26361-F3669-E4 does not support 3.5" ECO SATA HDD (S26361-F3700-E250/E500)

**Controller for 1 to 4 LFF (3.5") or 1 to 8 SFF (2.5") HDD**

1x



**Upgrade RAID controllers**  
 RAID Controller Loose delivery  
 F3554-L8/L512, F3669-L4)  
 requires RAID KIT

**RAID Upgrade Kit**  
 SATA / mini-SAS Cable  
**S26361-F4414-L2**

**Upgrade BBU / FBU**  
 Cache Battery Backup Unit  
**S26361-F3257-L210**

**S26361-F3669-L100**  
 TFM Module for FBU option  
 (flash and FBU control logic)  
 max. 1x per Controller

**S26361-F3669-L110**  
 Flash Backup Unit  
 with 25cm, 55cm, 70cm cable set  
 max. 1x per Controller

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