

PRIMERGY RX300 S6

System configurator and order-information guide

July 2012



Contents

Instructions

Configuration diagram

Configurator

- 0 System software
- I Basic unit
- II Processor
- III Memory
- IV Graphics
- V Accessible drives
- VI Hard disk drives
- VII PCI Controller
- VIII Communication/Network
- IX System Management Products (RemoteView)
- X Miscellaneous
- XI Country specific power cord

Change report



PRIMERGY Server

Instructions

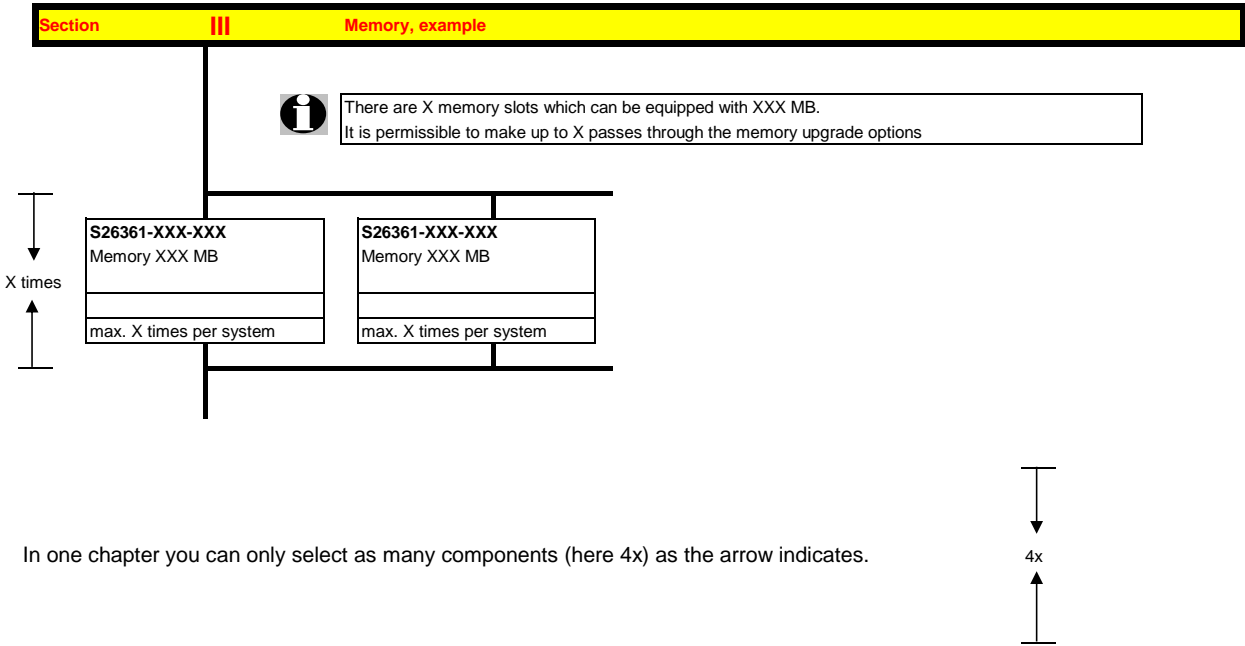
This document contains basic product and configuration information that will enable you to configure your system via PC-/System-Architect.

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-/SystemArchitect.

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/inc (internet)

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

Start "PRIMERGY RX300S6"

SW Configurator 32 bit

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

VMware-Software

- VirtualCenter Management Server for any server released for Windows Server 2003
- Virtual Infrastructure 3 for PRIMERGY > except all mono PRIMERGY systems
- ESX2 for PRIMERGY RX/TX300S2, RX/TX600S3, BX620S2, BX630 Dual/Quad, BX630 8-way

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.

Microsoft - Windows Server 2008 Server Licenses

- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
- Windows Server 2008 Foundation
- Windows Web Server 2008

Linux - Software **)

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

PRIMECLUSTER *)

- Clustering
- Load Balancing

Microsoft - Windows Server 2008 Client Access Licenses


- Windows Server 2008 Device CAL
- Windows Server 2008 User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL

SCO - Software: **)

- SCO OpenServer (only 1- and 2-way Tower servers)
- SCO UnixWare (only 1-, 2, and 4-way Tower and Rack servers)


x10sure *)
x10sure Control Nodes and Compute Nodes
Windows Server 2003 Compute Nodes
for PRIMERGY BX600, RX/TX


MultiPath, Duplex Data Manager (DDM) W2K; W2K3 Linux (W-DDM)
for PRIMERGY except all mono PY systems

 Details eg. version numbers are published on the page referred to

Manageability Software: V)**

- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy


 *) Pay attention to the x10sure release and ordering information in the Extranet under <https://ts.fujitsu.com/x10sure>

 *) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under <https://partners.ts.fujitsu.com/com/products/software/cluster%20technology/primecluster/Pages/default.aspx>

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

Backup-Software / Application-Software: U

- ARCServe
- openSM2

 ***) Supply over distribution or procurement from FSC VP BC Software

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/primerqy/Pages/default.aspx>

Continue with PRIMERGY HW configurator

Start "PRIMERGY RX300S6"

SW Configurator 64 bit (EM64T / IA64)

with OEM-Software
for PRIMERGY Server

without OEM-Software
for PRIMERGY Server

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

OEM- SW is bound to HW and is not allowed to be ordered separately.
Exceptions: VMware SW, Citrix XenServer

VMware-Software
- VirtualCenter Management Server for any server released for Windows Server 2003
- Virtual Infrastructure 3 for PRIMERGY > except all mono PRIMERGY systems
- ESX2 for PRIMERGY RX/TX300S2, RX/TX600S3, BX620S2, BX630 Dual/Quad, BX630 8-way

Citrix XenServer / Essentials for XenServer
- XenCenter Management Server for any server released for Windows 2000/XP/Vista and Server 2003/2008
- XenServer and Essentials for XenServer released for RX200S5, RX300S4/S5, RX600S4, BX620S4/S5, BX920S1

Microsoft Hyper-V Server and System Center
- Microsoft System Center Virtual Machine Manager Workgroup Edition for any server released for Windows Server 2008 R2
- Microsoft System Center Essentials Management Suite for any server released for Windows Server 2008 SP2
- Microsoft Hyper-V Server 2008 R2

Microsoft - Windows Server 2008 R2 Server Licenses
- Windows Server 2008 R2 Datacenter
- Windows Server 2008 R2 Enterprise
- Windows Server 2008 R2 Standard
- Windows Server 2008 R2 Foundation
- Windows Web Server 2008 R2

Linux - Software *) **)
Open Enterprise Server ***)
only EM64T
- SuSE Linux ES (OEM): LO
- Red Hat EL (OEM): LO

Microsoft - Windows Server 2008 Server Licenses
- Windows Server 2008 Datacenter
- Windows Server 2008 Enterprise
- Windows Server 2008 Standard
- Windows Server 2008 Foundation
- Windows Web Server 2008

PRIMECLUSTER *)
- Clustering
- Load Balancing

Microsoft - Windows Server 2008 Client Access Licenses
- Windows Server 2008 Device CAL
- Windows Server 2008 User CAL
- Windows Server 2008 Remote Desktop Services Device CAL
- Windows Server 2008 Remote Desktop Services User CAL

QuickTransit (QT)
only EM64T
Transition Solaris Apps. to x86-64 PY with Linux

only EM64T
MultiPath, Duplex Data Manager (DDM)
Windows, Linux (W-DDM)

i Details eg. version numbers are published on the page referred to

only EM64T
Manageability Software: V)**
- iRMC advanced Pack
- RemoteView Software
- RemoteView Service Board
- RemoteView Diagnosis
- RemoteDeploy

i *) Pay attention to the PRIMECLUSTER release and ordering information in the Extranet under <https://partners.ts.fujitsu.com/products/software/cluster%20technology/primecluster/Pages/default.aspx>

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

i ***) Supply over distribution or procurement from FSC VP BC Software

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/products/servers/primergy/Pages/default.aspx>

Continue with PRIMERGY HW configurator

Section I Basic unit

<p>System unit consisting of:</p> <ul style="list-style-type: none"> * 2U Housing including one power supply module <ul style="list-style-type: none"> - hot plug Power supply unit with 1 PSU module and power cord rack 4m lenght (can be upgraded with one additional PSU module) * Fan unit with 5 hot plug system-fans redundant * SAS Backplane for 6x 3.5" HD or SAS Backplane for 8 or 12x 2.5" HD with cable connection to modular RAID Controller <ul style="list-style-type: none"> -> 3 different basic units for 6x 3.5" HD or 8 or 12x 2.5" HD * 9 memory DIMMs per CPU (max 192GB) => Total 18 DIMMs (max 384GB) for two CPU's * Drives/Bays <ul style="list-style-type: none"> - 6 bays 1" for hot plug 3.5" HD (1" high) or 8 or 12 bays for hot plug 2.5" HD - 1 bay for 3.5" and 1.6" high Backup device, consumes 2 bays for 3.5" HD for basic unit 6x 3.5" HD not possible for basic unit with 12x 2,5" HD - 1 bay SATA-CD- or DVD-ROM 0,5" height (option) - 1 bay for opt. CSS-Display or LocalView LC-Display * Integrated ServerView Diagnostics Technology (Diagnosis LED's) for indication of internal failed components
<p>Systemboard D2619 with:</p> <ul style="list-style-type: none"> * Up to two Xeon Dual/Quad/Six-Core or Turbo Quad/Six Core CPU's (Westmere-EP, LGA 1366 socket) with serial QPI links (Quick Path Interconnect) and three memory channels per CPU First CPU has to be selected for an orderable basic unit, * Chipset Intel® 5520P (codenamed Tylersburg-EP or 36D) * 7 PCI slots: <ul style="list-style-type: none"> - 2x PCIe-2 x8 (wired x8, notched, possible to plug x16 card) - 5x PCIe-2 x8 (wired x4) <p style="margin-left: 40px;">From 4 PCIe-slots each two wired x4 slots can be combined to one wired x8 slot</p> * 18 memory slots for max. 384GB (12x32GB) RAM DDR3 available <ul style="list-style-type: none"> - Memory is divided into 9 DIMMs per CPU (3 channels with 3 slots per channel) - Max. 3x reg 1.5V or 2x reg. 1.35V quad ranked / unbuffered modules are possible per channel First Memory (one module) has to be selected for an orderable basic unit per CPU - Memory upgrade is possible module wise - Memory mirroring is supported with 2 identical modules in channel A+B CPU 1 or D+E CPU 2 - Hot Spare Memory is supported with 3 identical modules in channel A+B+C CPU 1 or D+E+F CPU 2 - SDDC (Chipkill) is supported for memory modules, * Dual Port 10/100/1000 x4 PCI Express* Gigabit Ethernet Intel LAN controller Zoar on-board * iRMC S2 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100 Service LAN-port and integrated graphics controller. The Service LAN-port can be switched alternatively on standard Gbit LAN port 1 * Graphics Controller integrated in iRMC S2 (integrated Remote Management Controller): 1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz (1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)
<p>Interfaces at the rear:</p> <ul style="list-style-type: none"> * 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared) * 1x RS-232-C (serial, 9 pins) * 1x VGA (15 pins) * 4x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup * 2x LAN RJ45, 1x Service-LAN RJ45
<p>Interfaces on the front:</p> <ul style="list-style-type: none"> * 3x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup * 1x VGA (15 pins) as an option
<p>Interfaces internal:</p> <ul style="list-style-type: none"> * 1x released internal USB Interfaces for backup device, * 1x USB 2.0 (UHCI) with 480MBit/s for dongle functionality, no USB wakeup * 2x SATA for internal devices
<p>Software:</p> <ul style="list-style-type: none"> * ServerView Suite Software package incl. ServerStart, ServerBooks, Management Software and Updates * Documentation engl. (multilingual on CD)

A

Cables included in basic unit

Connections	Cable	PRIMERGY RX300 S6
1. SATA DVD		
2. SAS cables to HDDs		
1x cable for SAS signaling		
3. Power cable		

⊗ SAS
 ○ SATA

Rack version for 19" racks with 1 hot plug Gold power supply module (Eff. 92%)	
Basic unit is without CPU and Memory For an orderable basic unit one CPU = first CPU and one memory = first memory has to be selected	
Basic unit with 6x 3,5" HDD bays, Gold PSU	S26361-K1344-V101
Basic unit with 8x 2,5" HDD bays, Gold PSU	S26361-K1344-V201
Basic unit with 12x 2,5" HDD bays, Gold PSU	S26361-K1344-V301
Carrier grade basic unit with 8x 2,5" HDD bays, -48V DC PSU	S26361-K1344-V801

RX300 S6 Energy Star Family Certification possible

★ NEBS level3 certification possible

S26113-F555-E10 2nd Gold power supply 800W (hot plug) for redundancy occupies one bay for hot plug power supply max. 1x per system	S26113-F576-E50 2nd -48V DC power supply 800W (hot plug) for redundancy occupies one bay for hot plug power supply max. 1x per system
---	--

★ NEBS level3 certification possible

For later upgrade the following kit is available:

Gold power supply module 800W hot plug:	S26113-F555-L10
-48V DC power supply 800W hot plug:	S26113-F576-L50

S26361-F4000-E1 T-Handle Option Two T-Handles for easier pull out of the rack max. 1x per system
--

★

For later upgrade the following kit is available:

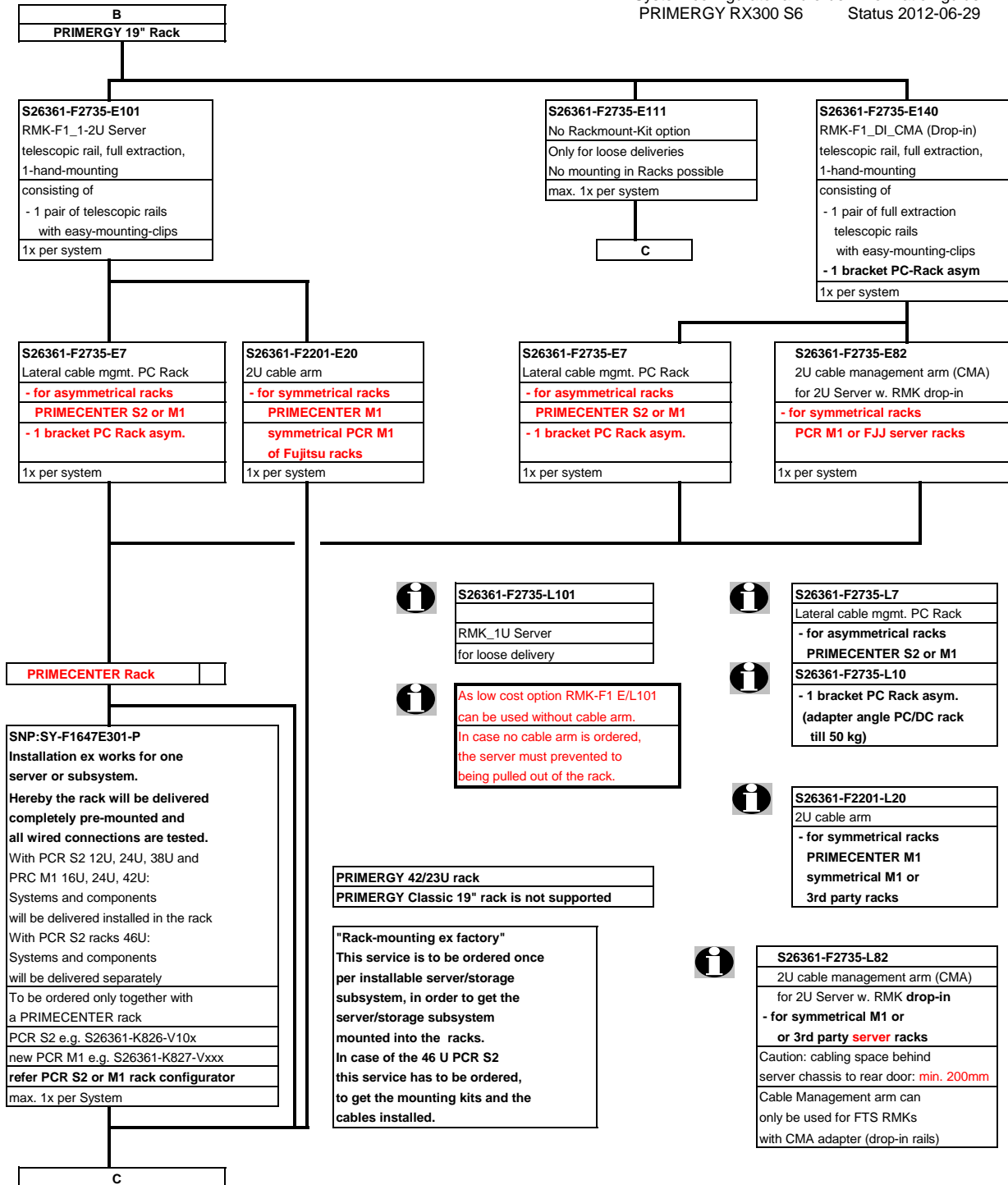
Two T-Handles Upgrade Option	S26361-F4000-L1
------------------------------	-----------------

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

Be aware of import restrictions!
 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 Use according to import restrictions max. 1x per system
--

B



C

Section Processor

There are 2 processor sockets available.
The first socket is always equipped with the **first CPU** which can be selected via configurator
It is also possible to upgrade a dual-processor system later on with a **second CPU**
Two processors with different clock frequencies are not possible
A multi-processor operating system is required for a dual-processor system.

Max. two CPU's can be selected per basic unit	
One of following CPU's has to be selected as first CPU for an orderable basic unit	
Optional second CPU has to be the same type like the first CPU	
Dual-Core CPU	
- 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5503 2C/2.00GHz/4M/4,80GT/s (80W)	S26361-F3277-E200
Quad-Core CPU's	
- 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5506 4C/2.13GHz/4M/4,8GT/s (80W)	S26361-F3278-E213
Xeon E5507 4C/2.26GHz/4M/4,8GT/s (80W)	S26361-F3278-E226
Xeon E5603 4C/1.60GHz/4M/4,80GT/s (80W)	S26361-F3648-E160
Xeon E5606 4C/2.13GHz/8M/4,80GT/s (80W)	S26361-F3648-E213
Xeon E5607 4C/2.26GHz/8M/4,80GT/s (80W)	S26361-F3648-E226
Turbo Quad-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W)	S26361-F3618-E240
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W)	S26361-F3618-E253
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W)	S26361-F3618-E266
Turbo Six-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5645 6C/2.40GHz/12M/5,86GT/s (80W)	S26361-F3633-E240
Xeon E5649 6C/2.53GHz/12M/5,86GT/s (80W)	S26361-F3649-E253
Turbo Six-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon X5650 6C/2.66GHz/12M/6,40GT/s (95W)	S26361-F3619-E266
Xeon X5660 6C/2.80GHz/12M/6,40GT/s (95W)	S26361-F3619-E280
Xeon X5670 6C/2.93GHz/12M/6,40GT/s (95W)	S26361-F3619-E293
Xeon X5675 6C/3.06GHz/12M/6,40GT/s (95W)	S26361-F3619-E306
Xeon X5680 6C/3.33GHz/12M/6,40GT/s (130W)	S26361-F3619-E333
Xeon X5690 6C/3.46GHz/12M/6,40GT/s (130W)	S26361-F3619-E346
Frequency Optimized Turbo Quad-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon X5647 4C/2.93GHz/12M/5,86GT/s (130W)	S26361-F3620-E293
Frequency Optimized Turbo Quad-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1333 MHz DDR3 Bus, 6,40 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon X5667 4C/3.06GHz/12M/6,40GT/s (95W)	S26361-F3620-E306
Xeon X5677 4C/3.46GHz/12M/6,40GT/s (130W)	S26361-F3620-E346
Xeon X5687 4C/3.60GHz/12M/6,40GT/s (130W)	S26361-F3620-E360
Low Voltage Quad-Core CPU with max. 800MHz DDR3 speed	
- 1x 64-bit Intel Xeon (4MB shared TLC = Third Level Cache) 800 MHz DDR3 Bus, 4,80 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon L5609 4C/1.86GHz/12M/4,80GT/s (40W)	S26361-F3621-E186
Low Voltage Turbo Quad/Six-Core CPU's with max. DDR3 Bus Speed 1066MHz	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon L5630 4C/2.13GHz/12M/5,86GT/s (40W)	S26361-F3622-E213
Xeon L5640 6C/2.26GHz/12M/5,86GT/s (60W)	S26361-F3622-E226

Note: Max. DDR3 Bus Speed depends on:

- max. DDR3 Bus Speed from the CPU and
- max. DDR3 Memory Speed and
- max. memory modules on one memory channel

on special release

★ NEBS level3 certification possible

★

on special release

on special release

D

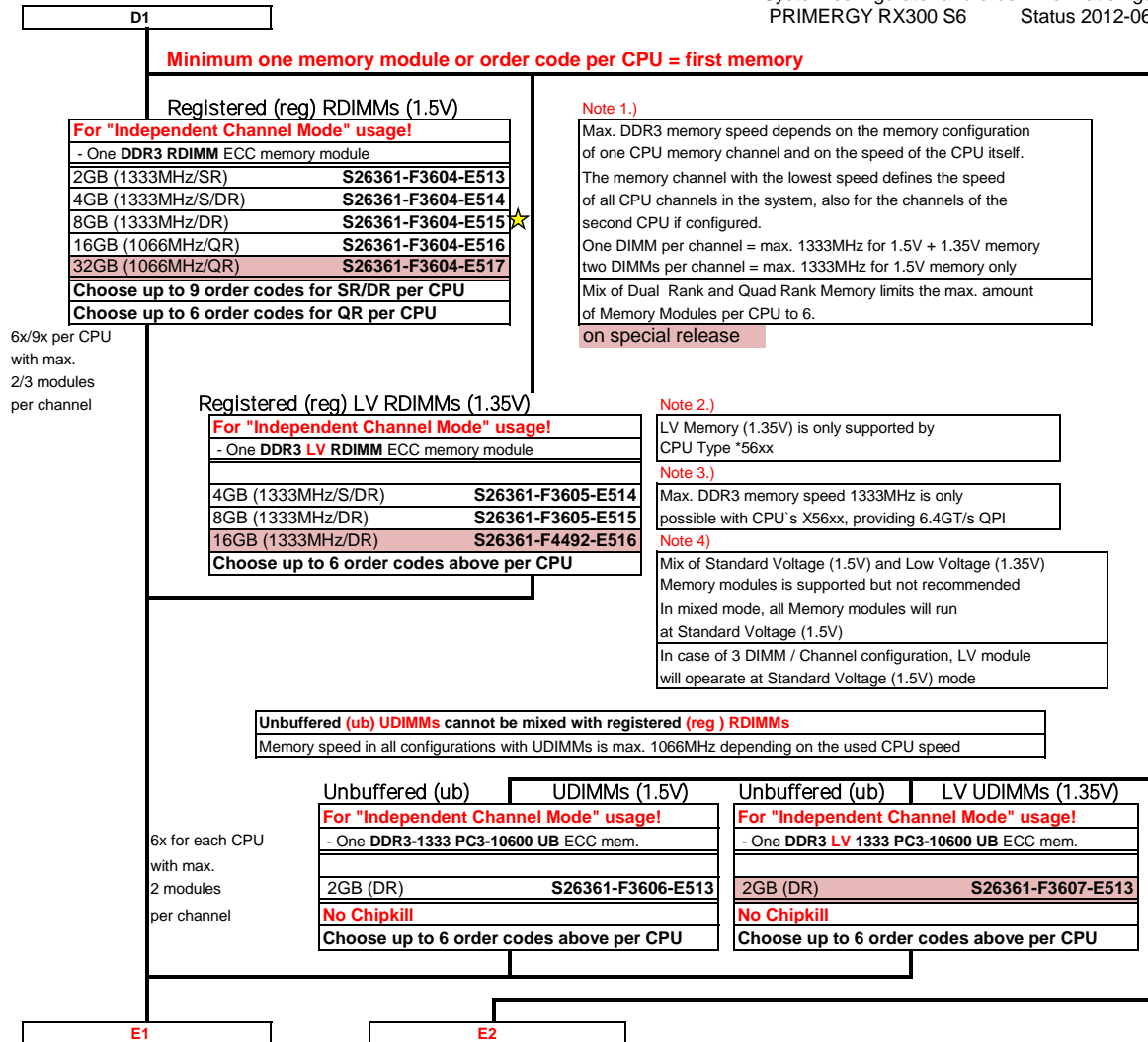
D

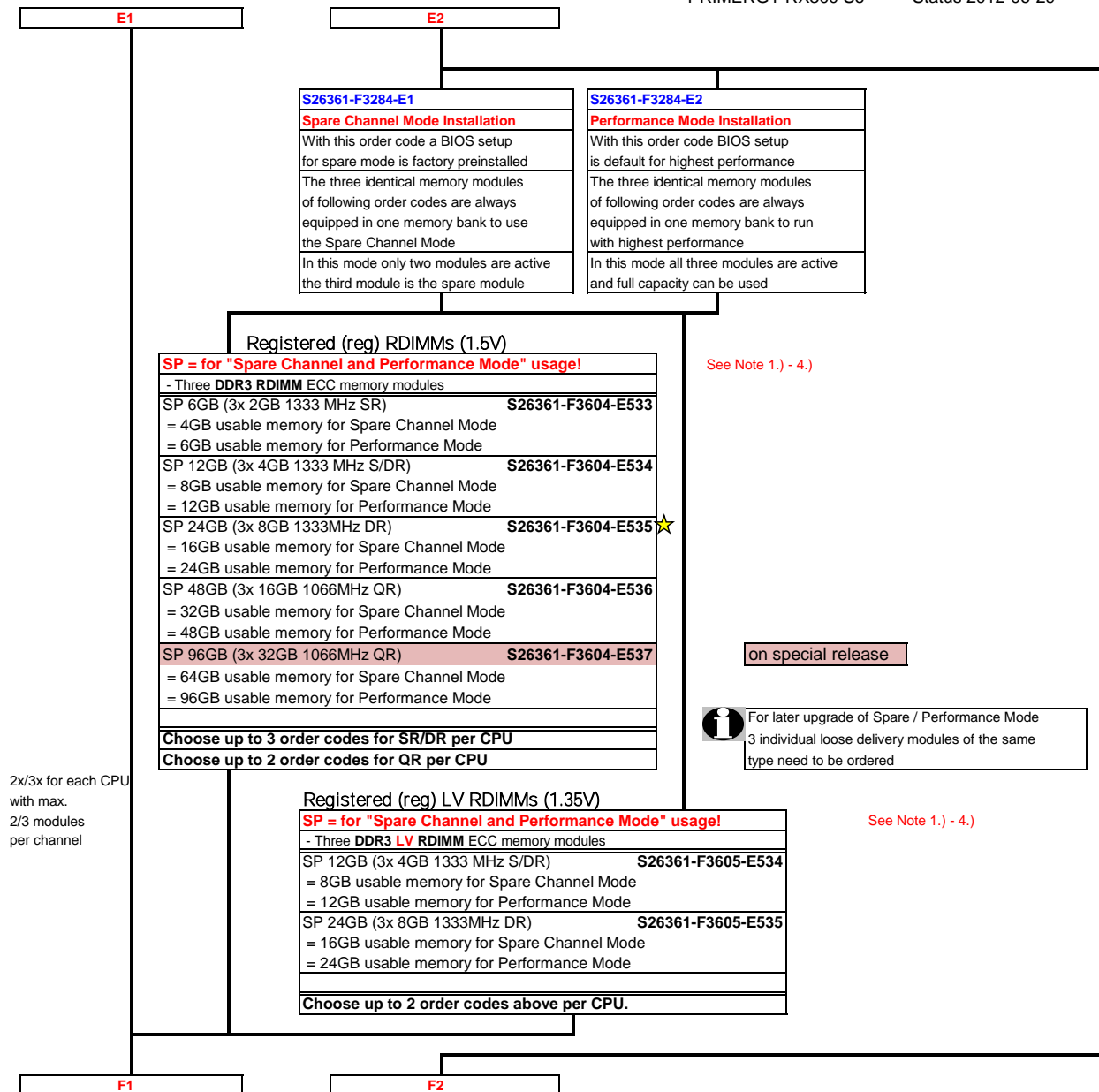
Section III Memory

<p>- There are 9 memory slots per CPU for max. 72GB (9x 8GB single / dual rank 1.5V RDIMM's) 96GB (6x 16GB quad rank 1.5V RDIMMs) 12GB (6x 2GB UDIMMs) => max. 192GB for two CPU's (96GB per CPU) (For explanation of following terms refer to section "Memory Configurations"</p> <p>- The memory area is divided into 3 channels per CPU with 3 slots per channel - Slot 1 of each channel belongs to memory bank 1, the slot 2 belongs to memory bank 2 and slot 3 belongs to memory bank 3 Systems with 3DPC (9 DIMMs / CPU) do not support mix of dual rank and quad rank modules</p>
<p>Registered and unbuffered memory modules can be selected No mix of registered and unbuffered modules allowed. DDR3 1066 and 1333MHz modules can be mixed, but run always with the slower speed. With two DIMMs per channel, 1.5V DIMMs operate with 1333Mhz, 1.35V with 1066MHz as max., dep. on CPU If 1.5V DIMMs and 1.35V (Low Voltage) DIMMs are mixed, DIMMs will run at 1.5V SDDC (Chipkill) is supported only for registered memory modules.</p>
<p>1.) In the "Independent Channel Mode" is following configuration possible - Each slot can optionally be equipped either with registered x4 organized DDR3 modules: 2GB single rank, 4GB and 8GB dual rank, 16GB quad rank or with unbuffered x8 organized DDR3 modules: 2GB dual rank</p>
<p>2.) In the "Spare Channel Mode" is following configuration possible - Each memory bank can optionally be equipped with 3x2GB single rank, 3x4GB and 3x8GB dual rank or 3x 16GB quad rank DDR3 modules. Each slot of one bank has to be equipped with identical modules for spare channel mode In channel A and B of CPU 1 or channel D and E of CPU 2 are always the active memory modules, in channel C of CPU 1 and channel F of CPU 2 is always the spare module No special order codes with UDIMMs are offered for this mode</p>
<p>3.) In the "Mirrored Channel Mode" is following configuration possible - Each memory bank can optionally be equipped with 2x2GB single rank, 2x4GB and 2x8GB dual rank or 2x16GB quad rank DDR3 modules. In each memory bank channel A and B of CPU 1 or channel D and E of CPU 2 have to be equipped with identical modules for mirrored channel mode. Channel C of CPU 1 and channel F of CPU 2 is not equipped In channel B is always the mirrored memory of channel A of CPU 1 In channel E is always the mirrored memory of channel D of CPU 2 No special order codes with UDIMMs are offered for this mode</p>
<p>- For each CPU minimum 1 memory module has to be configured in Independent Channel Mode (=> Additional memory extensions can still be configured up to eight times per CPU) or one bank has to be equipped with two modules (channel A+B for CPU 1 or D+E for CPU 2) in Mirrored Channel Mode (=> Additional memory extensions can still be configured up to two times per CPU) or one bank has to be equipped with three modules (channel A+B+C for CPU 1 or D+E+F for CPU 2) in Spare Channel Mode or Performance Mode (=> Additional memory extensions can still be configured up to two times per CPU)</p>

For a description of memory configurations refer to section "Memory Configurations"

D1





S26361-F3284-E1
Spare Channel Mode Installation
With this order code a BIOS setup for spare mode is factory preinstalled
The three identical memory modules of following order codes are always equipped in one memory bank to use the Spare Channel Mode
In this mode only two modules are active the third module is the spare module

S26361-F3284-E2
Performance Mode Installation
With this order code BIOS setup is default for highest performance
The three identical memory modules of following order codes are always equipped in one memory bank to run with highest performance
In this mode all three modules are active and full capacity can be used

Registered (reg) RDIMMs (1.5V)	
SP = for "Spare Channel and Performance Mode" usage!	
- Three DDR3 RDIMM ECC memory modules	
SP 6GB (3x 2GB 1333 MHz SR)	S26361-F3604-E533
= 4GB usable memory for Spare Channel Mode = 6GB usable memory for Performance Mode	
SP 12GB (3x 4GB 1333 MHz S/DR)	S26361-F3604-E534
= 8GB usable memory for Spare Channel Mode = 12GB usable memory for Performance Mode	
SP 24GB (3x 8GB 1333MHz DR)	S26361-F3604-E535 ★
= 16GB usable memory for Spare Channel Mode = 24GB usable memory for Performance Mode	
SP 48GB (3x 16GB 1066MHz QR)	S26361-F3604-E536
= 32GB usable memory for Spare Channel Mode = 48GB usable memory for Performance Mode	
SP 96GB (3x 32GB 1066MHz QR)	S26361-F3604-E537
= 64GB usable memory for Spare Channel Mode = 96GB usable memory for Performance Mode	
Choose up to 3 order codes for SR/DR per CPU	
Choose up to 2 order codes for QR per CPU	

See Note 1.) - 4.)

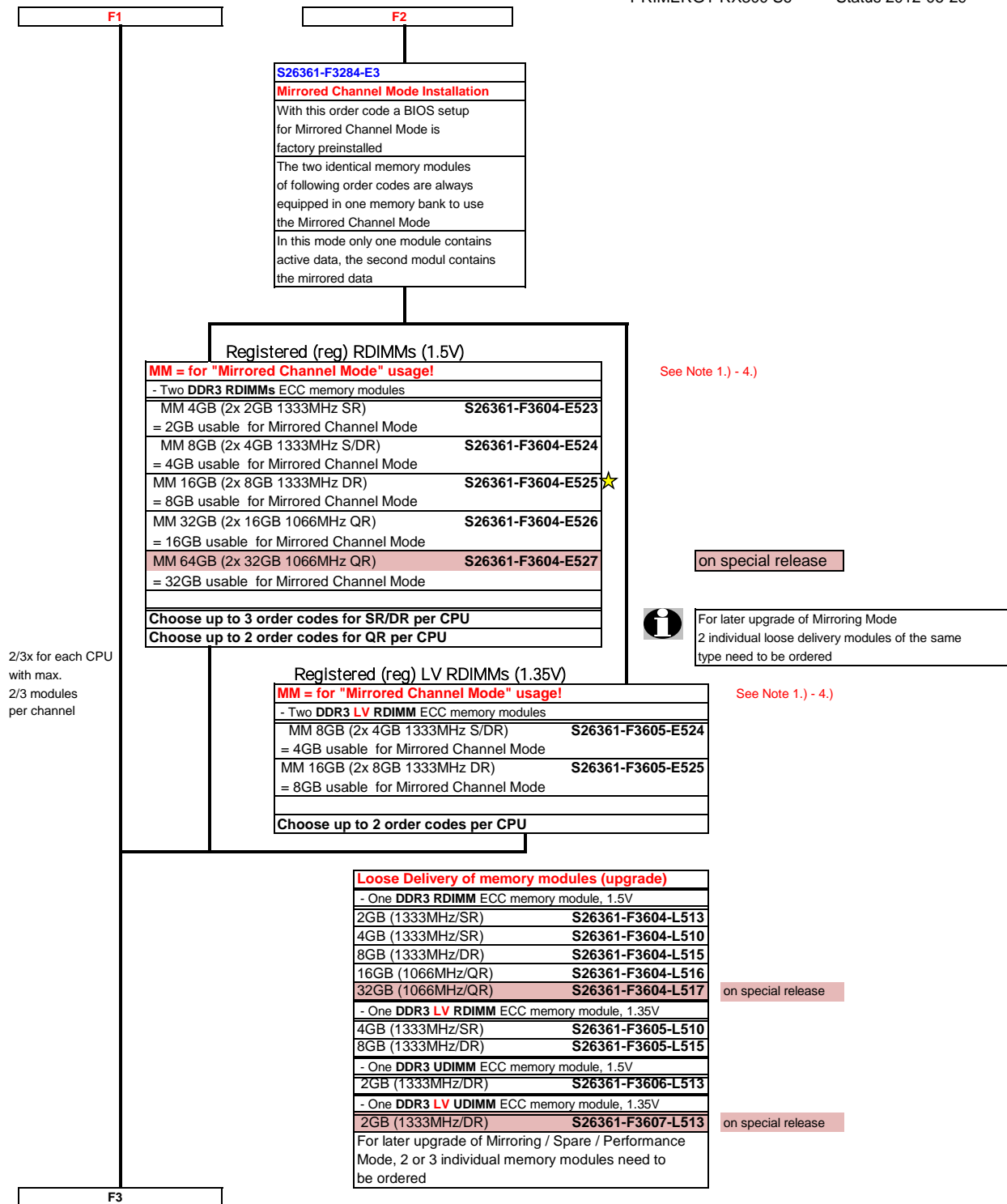
on special release

i For later upgrade of Spare / Performance Mode
 3 individual loose delivery modules of the same type need to be ordered

2x/3x for each CPU with max. 2/3 modules per channel

Registered (reg) LV RDIMMs (1.35V)	
SP = for "Spare Channel and Performance Mode" usage!	
- Three DDR3 LV RDIMM ECC memory modules	
SP 12GB (3x 4GB 1333 MHz S/DR)	S26361-F3605-E534
= 8GB usable memory for Spare Channel Mode = 12GB usable memory for Performance Mode	
SP 24GB (3x 8GB 1333MHz DR)	S26361-F3605-E535
= 16GB usable memory for Spare Channel Mode = 24GB usable memory for Performance Mode	
Choose up to 2 order codes above per CPU.	

See Note 1.) - 4.)



S26361-F3284-E3
Mirrored Channel Mode Installation
 With this order code a BIOS setup for Mirrored Channel Mode is factory preinstalled
 The two identical memory modules of following order codes are always equipped in one memory bank to use the Mirrored Channel Mode
 In this mode only one module contains active data, the second modul contains the mirrored data

Registered (reg) RDIMMs (1.5V)

MM = for "Mirrored Channel Mode" usage!

- Two DDR3 RDIMMs ECC memory modules	
MM 4GB (2x 2GB 1333MHz SR) = 2GB usable for Mirrored Channel Mode	S26361-F3604-E523
MM 8GB (2x 4GB 1333MHz S/DR) = 4GB usable for Mirrored Channel Mode	S26361-F3604-E524
MM 16GB (2x 8GB 1333MHz DR) = 8GB usable for Mirrored Channel Mode	S26361-F3604-E525 ★
MM 32GB (2x 16GB 1066MHz QR) = 16GB usable for Mirrored Channel Mode	S26361-F3604-E526
MM 64GB (2x 32GB 1066MHz QR) = 32GB usable for Mirrored Channel Mode	S26361-F3604-E527
Choose up to 3 order codes for SR/DR per CPU	
Choose up to 2 order codes for QR per CPU	

See Note 1.) - 4.)

on special release



For later upgrade of Mirroring Mode
 2 individual loose delivery modules of the same type need to be ordered

Registered (reg) LV RDIMMs (1.35V)

MM = for "Mirrored Channel Mode" usage!

- Two DDR3 LV RDIMM ECC memory modules	
MM 8GB (2x 4GB 1333MHz S/DR) = 4GB usable for Mirrored Channel Mode	S26361-F3605-E524
MM 16GB (2x 8GB 1333MHz DR) = 8GB usable for Mirrored Channel Mode	S26361-F3605-E525
Choose up to 2 order codes per CPU	

See Note 1.) - 4.)

Loose Delivery of memory modules (upgrade)

- One DDR3 RDIMM ECC memory module, 1.5V	
2GB (1333MHz/SR)	S26361-F3604-L513
4GB (1333MHz/SR)	S26361-F3604-L510
8GB (1333MHz/DR)	S26361-F3604-L515
16GB (1066MHz/QR)	S26361-F3604-L516
32GB (1066MHz/QR)	S26361-F3604-L517
- One DDR3 LV RDIMM ECC memory module, 1.35V	
4GB (1333MHz/SR)	S26361-F3605-L510
8GB (1333MHz/DR)	S26361-F3605-L515
- One DDR3 UDIMM ECC memory module, 1.5V	
2GB (1333MHz/DR)	S26361-F3606-L513
- One DDR3 LV UDIMM ECC memory module, 1.35V	
2GB (1333MHz/DR)	S26361-F3607-L513
For later upgrade of Mirroring / Spare / Performance Mode, 2 or 3 individual memory modules need to be ordered	

on special release

on special release

2/3x for each CPU
 with max.
 2/3 modules
 per channel

F3

Section IV Graphics

Graphics Controller integrated in iRMC S2 (integrated Remote Management Controller):
 1600x1200x16bpp 60Hz, 1280x1024x16bpp 60Hz, 1024x768x32bpp 75Hz, 800x600x32bpp 85Hz, 640x480x32bpp 85Hz
 (1280x1024x24bpp 60Hz only possible if local monitor or remote video redirection is off)

S26361-F2571-E16
 Optional Front-VGA
 consists of internal cable and
 front VGA connector
 max. 1x per system



Graphics Controller integrated in iRMC with 32 MB attached Memory with following resolution:
 - 16 bit color with maximum resolution of 1600 x 1200
 - 24 bit color with maximum resolution of 1280 x 1024
 - 32 bit color with maximum resolution of 1152 x 864
 This resolution is also available via iRMC advance video redirection.
NOTE: Only VESA-compliant graphics modes are supported

S26361-F2748-E637
 PY VGA LP card 512MB PCI-e x1
 NVIDIA NVS300
 512 MB PCI-e-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
 low profile bracket
 max. 1x per system



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 4

S26361-F2748-L637
 PY VGA LP card 512MB PCI-e x1
 for loose delivery

G

Memory Configuration PRIMERGY RX300 S6

Each CPU offers **9 Slots** for DDR3 Memory Modules organised in **3 Banks and 3 Channels**.

If you need more than 9 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 4 different kinds of DDR3 Memory Modules available: UDIMM / UDIMM LV and RDIMM / RDIMM LV

UDIMM and RDIMM offer different functionality. Mix of UDIMM + RDIMM is not allowed.

Mixing of Standard + Low Voltage DIMM's of the same type is allowed, but not recommended (therefore not configurable ex works)

If 1.5V and 1.35V DIMMs are mixed, the DIMMs will run at 1.5V

Mixing of SR / DR and QR Memory Modules will limit the max. amount of modules per CPU to 6.

Mode	Configuration	UDIMM	RDIMM	Application
chip kill support	any	n.a.	yes	detect multi-bit errors
Independent Channel Mode	1, 2 or 3 Modules per Bank	x	x	offers max. flexibility, upgradeability, capacity use UDIMM modules for lowest cost
Mirrored Channel Mode	2 identical Modules / Bank	**)	x	offers maximum security
Performance Mode *)	3 identical Modules / Bank	**)	x	offers maximum performance and capacity
Spare Channel Mode *)	3 identical Modules / Bank	**)	x	balances security and capacity

*) = Performance Mode and Spare mode use different BIOS settings.

***) = technically possible but no Order Numbers available, use at your own risk

x = order codes available

Capacity	Configuration	UDIMM	RDIMM	RDIMM LV	Notes
Min. Memory per CPU	1 Module / CPU	1x2GB	1x2GB	1x 4GB	with one CPU
Max. Memory per CPU	6/9 Modules / CPU	6x2GB	6x16GB	6x 8GB	with one CPU
Max. Memory per System	12 Modules / System	24GB	192GB	96GB	if second CPU is configured

Memory-Speed:

Max. DDR3 memory speed depends on the memory configuration on one memory channel and the speed of the CPU

One DIMM per channel = max. 1333MHz, two DIMMs per channel = max. 1333MHz for 1.5V / max. 1066 for 1.35V memory, three DIMMs per channel = max. 800MHz.

The memory channel with the lowest speed defines the speed of all CPU channels in the system

DIMM Type	DIMM Slots per Channel	DIMMs populated per Channel	Memory Speed max (CPU dependent)	Ranks per DIMM
RDIMM 1.5V 1333MHz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	1	800, 1066	QR
	2 / 3	2	800, 1066, 1333	Mix of SR + DR
	2 / 3	2	800	Mix of QR + SR / DR
	3	3	800	Mix of SR + DR
RDIMM LV / 1.35V 1333MHz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	1	800, 1066	QR*
	2 / 3	2	800, 1066	Mix of SR + DR
	2 / 3	2	800	Mix of QR* + SR / DR
	3	3	800	Mix of SR + DR **
UDIMM 1.5V 1333MHz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	2	800, 1066, 1333	Mix of SR + DR
UDIMM LV / 1.35V 1333MHz	2 / 3	1	800, 1066, 1333	SR / DR
	2 / 3	2	800, 1066	Mix of SR + DR

* no memory modules released for this configuration

** lost LV-mode, memory will switch to 1,5V Vcc automatically

Used CPU	Max. Memory-Bus speed depending on DIMMs / channel if following memory speed is used for specific CPU's														
	UDIMM 1333 MHz 1.5V			UDIMM 1333 MHz LV / 1.35V			RDIMM 1333 MHz 1.5V			RDIMM 1333 MHz LV / 1.35V			RDIMM 1066 MHz (QR) 1.5V		
Populated Dimms / Channel	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
Dual-Core CPU															
with max. 800MHz DDR3 speed (4.8GT/s)															
Xeon E5503 2C/2.00GHz/2M/4,80GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Quad-Core CPU's															
with max. 800MHz DDR3 speed (4.8GT/s)															
Xeon E5506 4C/2.13GHz/4M/4,80GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Xeon E5507 4C/2.26GHz/4M/4,80GT/s (80W)	800	800	-	800	800	-	800	800	800	800	800	-	800	800	-
Turbo Quad-Core CPU's															
with max. 1066MHz DDR3 speed (5.86GT/s)															
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Turbo Six-Core CPU's															
with max. 1333MHz DDR3 speed (5.86GT/s)															
Xeon E5645 6C/2.40GHz/12M/5,86GT/s (80W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon E5649 6C/2.53GHz/12M/5,86GT/s (80W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Turbo Six-Core CPU's															
with max. 1333MHz DDR3 speed (6.4GT/s)															
Xeon X5650 6C/2.66GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5660 6C/2.80GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5670 6C/2.93GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5680 6C/3.33GHz/12M/6,40GT/s (130W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Frequency Optimized Turbo Quad-Core CPU's															
with max. 1333MHz DDR3 speed (6.4GT/s)															
Xeon X5667 4C/3.06GHz/12M/6,40GT/s (95W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Xeon X5677 4C/3.46GHz/12M/6,40GT/s (130W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-
Low Voltage Quad-Core CPU															
with max. 1066MHz DDR3 speed (4.8GT/s)															
Xeon L5609 4C/1.86GHz/12M/4.80GT/s (40W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	1066	-
Low Voltage Turbo Quad-Core CPU															
with max. 1066/1333MHz DDR3 speed (5.86GT/s)															
Xeon L5630 4C/2.13GHz/12M/5,86GT/s (40W)	1066	1066	-	1066	1066	-	1066	1066	800	1066	1066	-	1066	800	-
Xeon L5640 6C/2.40GHz/12M/5,86GT/s (60W)	1333	1333	-	1333	1066	-	1333	1333	800	1333	1066	-	1066	800	-

SR - Single Rank - 1Rx4
DR - Dual Rank - 2Rx4
QR - Quad Rank - 4Rx4

1DPC = 1 DIMM per Channel
2DPC = 2 DIMM per Channel
3DPC = 3 DIMM per Channel

1333
1066
800
not supported
special release

Configuration hints:

- The memory sockets on the systemboard offer a color coding:

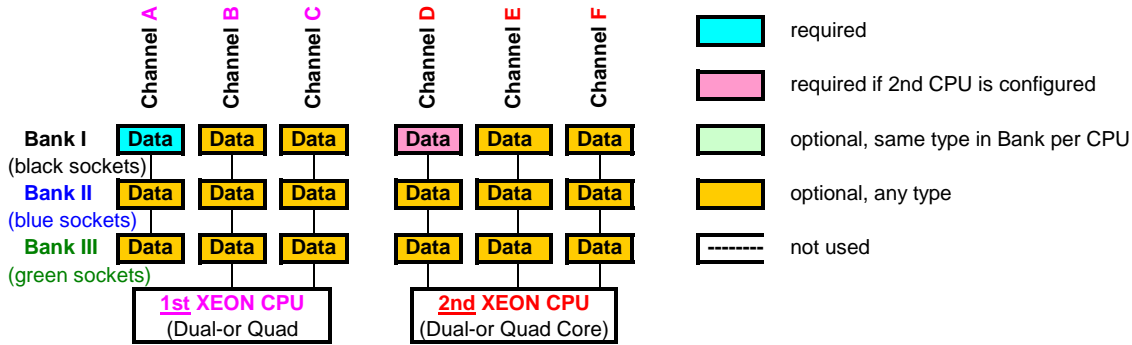
- Bank I** black sockets
- Bank II** blue sockets
- Bank III** green sockets

- A so called Bank consists of 1 memory module on every Channel available on one CPU (examples see below)

- Bank I on CPU 1** up to 3 memory modules connected to Channel A, B and C on the first CPU
- Bank II on CPU 1** up to 3 memory modules connected to Channel A, B and C on the first CPU
- Bank III on CPU 1** up to 3 memory modules connected to Channel A, B and C on the first CPU
- Bank I on CPU 2** up to 3 memory modules connected to Channel D, E and F on the second CPU
- Bank II on CPU 2** up to 3 memory modules connected to Channel D, E and F on the second CPU
- Bank III on CPU 2** up to 3 memory modules connected to Channel D, E and F on the second CPU

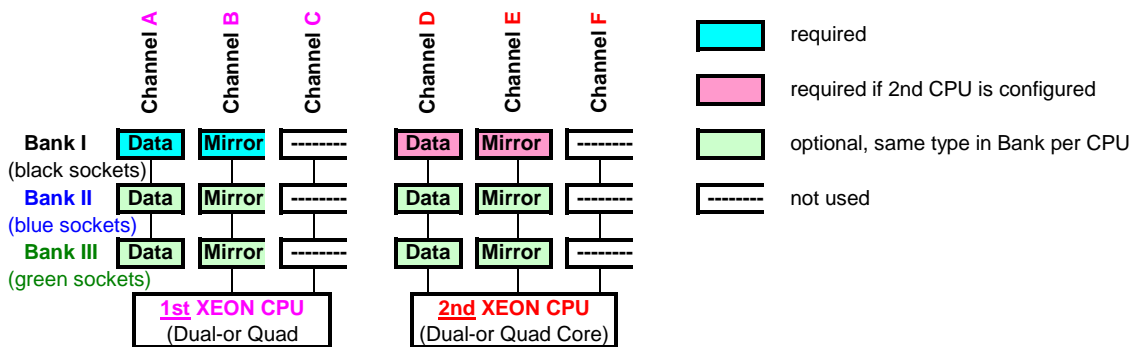
- See below and next page for a detailed descriptions of the memory configuration supported.

1. Independent Channel Mode



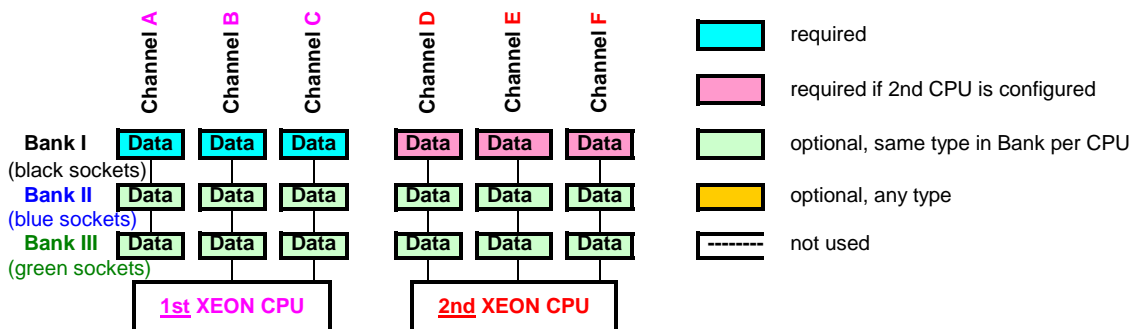
Independent Channel Mode allows all channels to be populated in any order
 Can run with differently rated DIMMs and use the settings of the lowest DIMM within a channel

2. Mirrored Channel Mode



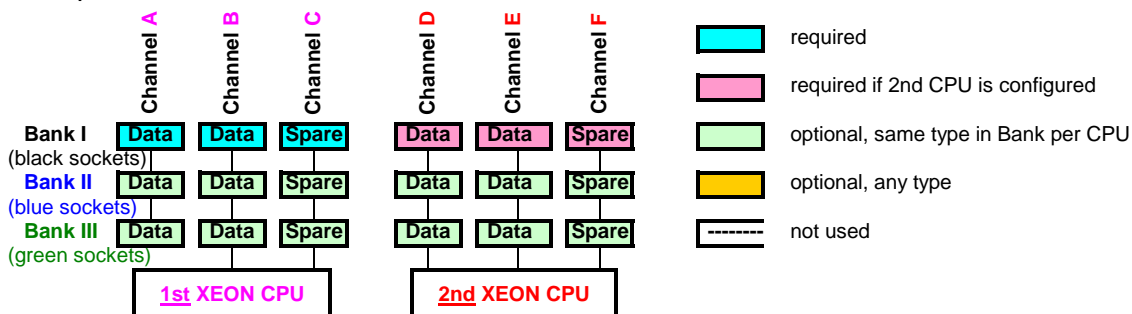
Mirrored Channel Mode requires identical modules on channel A and B (1st CPU) or channel D and E (2nd CPU)
 50% of the capacity is used for the mirror => the available memory for applications is only half of the installed memory
 Channel C (1st CPU) or channel F (2nd CPU) are not usable in Mirrored Channel Mode

3. Performance Channel Mode



Performance Channel Mode requires identical modules on all channels of each Bank per CPU

4. Spare Channel Mode



Spare Channel Mode requires identical modules on all channels of each Bank per CPU
 one third of the capacity is used for the spare => the available memory for applications is two thirds of the installed memroy
 Spare Channel Mode is supported using RDIMM memory modules

G

Section V Accessible drives

i Setup RX300 S6 by ServerStart is supported with following configurations:

no DVD, no CD: remote installation only (PXE service & DHCP server required)
built in CD/DVD or USB CD/DVD disk drive: UNC Network share reachable or USB Floppy connected
USB Floppy, no CD/DVD: USB CD/DVD connected

i If installation is done locally, make sure you have external FDD available for driver installation.

Following USB Components are available

1) USB DVD SM / Blu-Ray External SuperMulti Drive (as soon as released)	S26341-F103-L119
External Blu-Ray Drive (as soon as released)	S26341-F103-L120
2) USB Memorybird: MyUSBS A910 8GB, MLC Flash	S26391-F6048-L208
MyUSBS A910 16GB, MLC Flash	S26391-F6048-L216

1x

S26361-F3531-E2 Blu-ray Combo slim SATA 6x BD-ROM, 16x DVD, 40x CD BD DL and all CD/DVD formats 0.5 x 5.25", black bezel max. 1x per system	★ S26361-F3269-E2 DVD-RW supermulti slim SATA all formats, DUAL/DL, DVD-RAM 0.5 x 5.25", black bezel max. 1x per system	★ S26361-F3641-E2 Blu-ray Triple Writer slim SATA 6x BD-RW, 8x DVD, 24x CD BD DL and all CD/DVD formats 0.5 x 5.25" max. 1x per system
---	--	--

1x

S26361-F3324-E7 Tape drive DDS Gen5 USB 3.5" 36GB, 3MB/s, USB 2.0 1.6 x 3.5", black bezel within a tape cage incl. description (Ger/US) cleaning cartridge occupies 2 x 1" hard disk bays max. 1x per system	S26361-F3857-E7 RDX drive USB 3.5" internal 80-320GB, 25MB/s, USB 2.0 1.6 x 3.5", black bezel within a tape cage incl. description (Ger/US) without RDX cartridges occupies 2 x 1" hard disk bays max. 1x per system
---	---

i Only for basic unit V1xx

RDX cartridges must be ordered separately
 RDX 160GB = S26361-F3857-L160
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600 *
 10x RDX160 = S26361-F3857-L169
 10x RDX320 = S26361-F3857-L329
 * as soon as available

1x

S26361-F3324-E5 Tape drive DDS Gen5 USB 3.5" 36GB, 3MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) cleaning cartridge 1.6 x 3.5", black bezel max. 1x per system	S26361-F3857-E5 RDX drive USB 3.5" internal 80-320GB, 25MB/s, USB 2.0 Connector: USB "B" with USB cable incl. description (Ger/US) without RDX cartridges 1.6 x 3.5", black bezel max. 1x per system
---	---

i Only for basic unit V2xx

RDX cartridges must be ordered separately
 RDX 160GB = S26361-F3857-L160
 RDX 320GB = S26361-F3857-L320
 RDX 500GB = S26361-F3857-L500
 RDX 1TB = S26361-F3857-L600 *
 10x RDX160 = S26361-F3857-L169
 10x RDX320 = S26361-F3857-L329
 * as soon as available

H

H

Section VI Hard disks drives



Modular Raid controller is connected to internal HDDs
 For basic units V1xx up to 6 SAS 3.5" hard disks can be configured also in mixed configuration.
 If the option "Tape drive" is configured only 4 bays for hard disks are available
Mixed configurations with Eco SATA drives and SAS drives are not allowed
 3.5" SAS drives and 3.5" BC SATA drives can be mixed, but not used in one logical RAID volume

S26361-F3293-E250
 HD 250GB 7.2krpm 3.5"
 7200rpm, <9.0 ms, 8MB Cache
ECO SATA 3Gb/s
 hot plug/hot replace tray
max. 6x (or 4x) per system

SAS 6Gb/s 3.5" with hot plug/hot replace tray

300GB 10000rpm, <4.5ms, 8MB Cache	S26361-F4005-E530
450GB 10000rpm, <4.5ms, 8MB Cache	S26361-F4005-E545
600GB 10000rpm, <4.5ms, 8MB Cache	S26361-F4005-E560

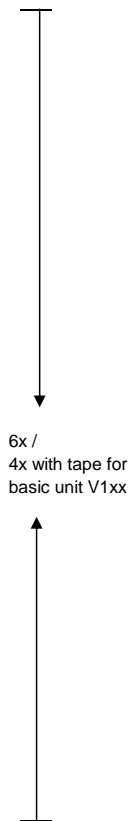
max. 6x (or 4x) per system

S26361-F3291-E514
 HD 146GB 15krpm 3.5"
 15.000rpm, <4ms, 8MB Cache
SAS 3Gb/s
 hot plug/hot replace tray
max. 6x (or 4x) per system

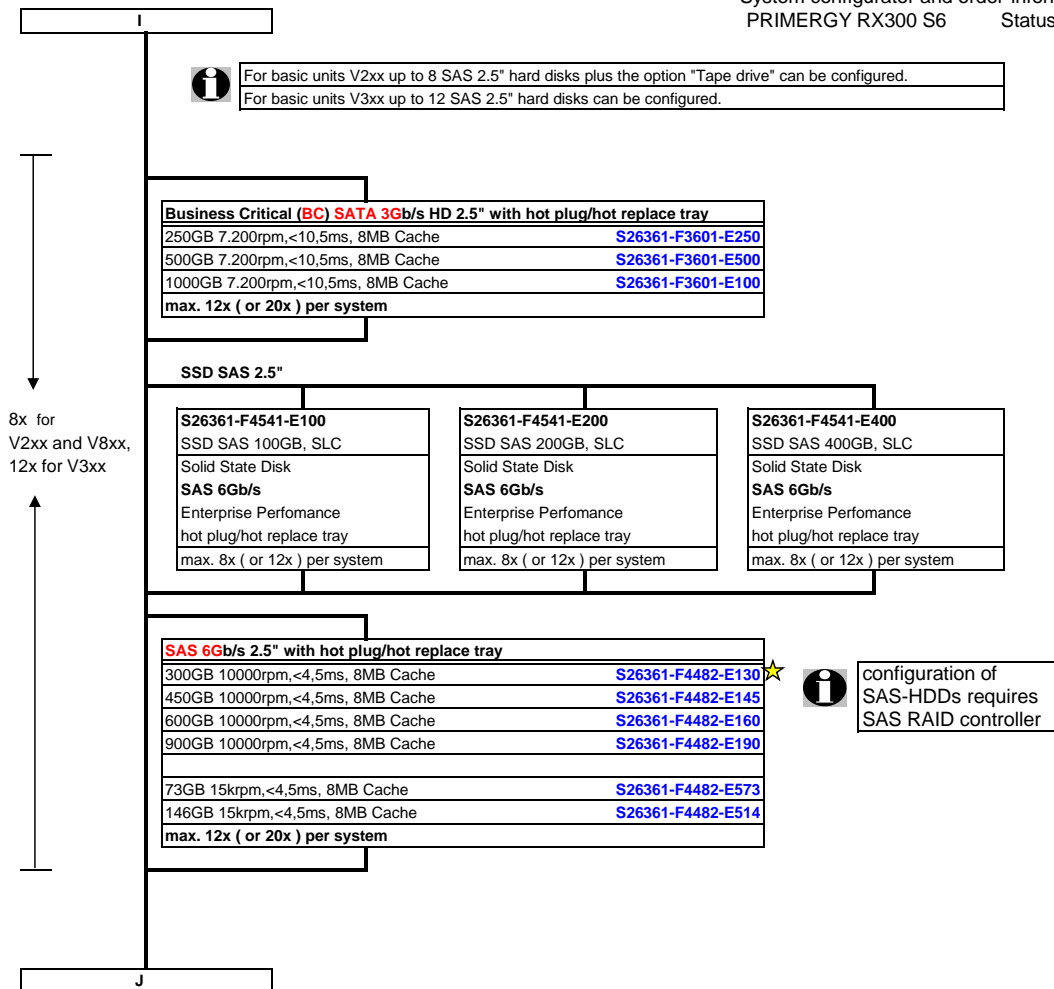
Business Critical (BC) SATA 3Gb/s HD 3.5" with hot plug/hot replace tray

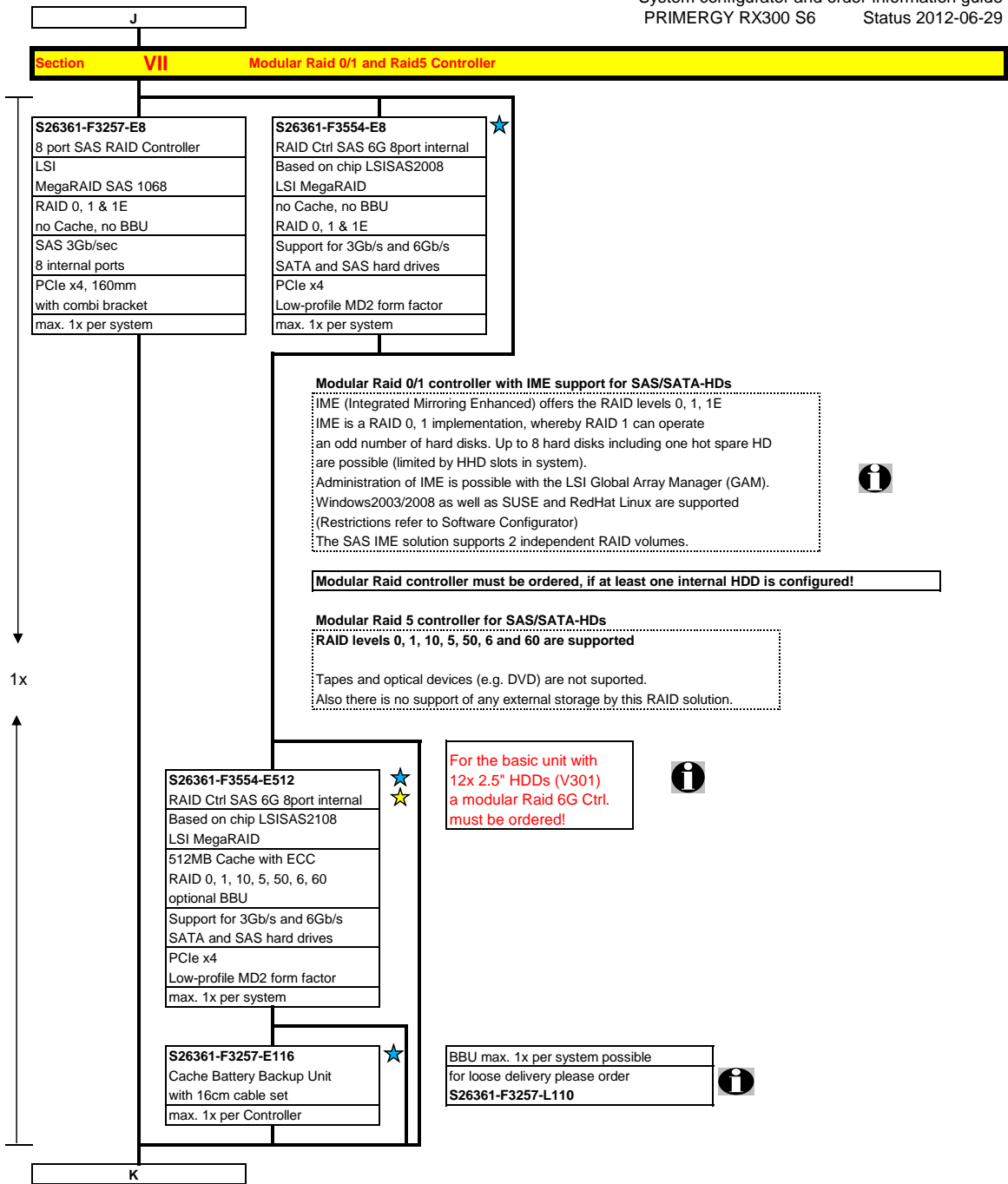
250GB 7.200rpm, <9,0ms, 8MB Cache	S26361-F3294-E250 ★
500GB 7.200rpm, <9,0ms, 8MB Cache	S26361-F3294-E500 ★
1000GB 7.200rpm, <9,0ms, 8MB Cache	S26361-F3294-E100 ★
2000GB 7.200rpm, <9,0ms, 8MB Cache	S26361-F3294-E200 ★

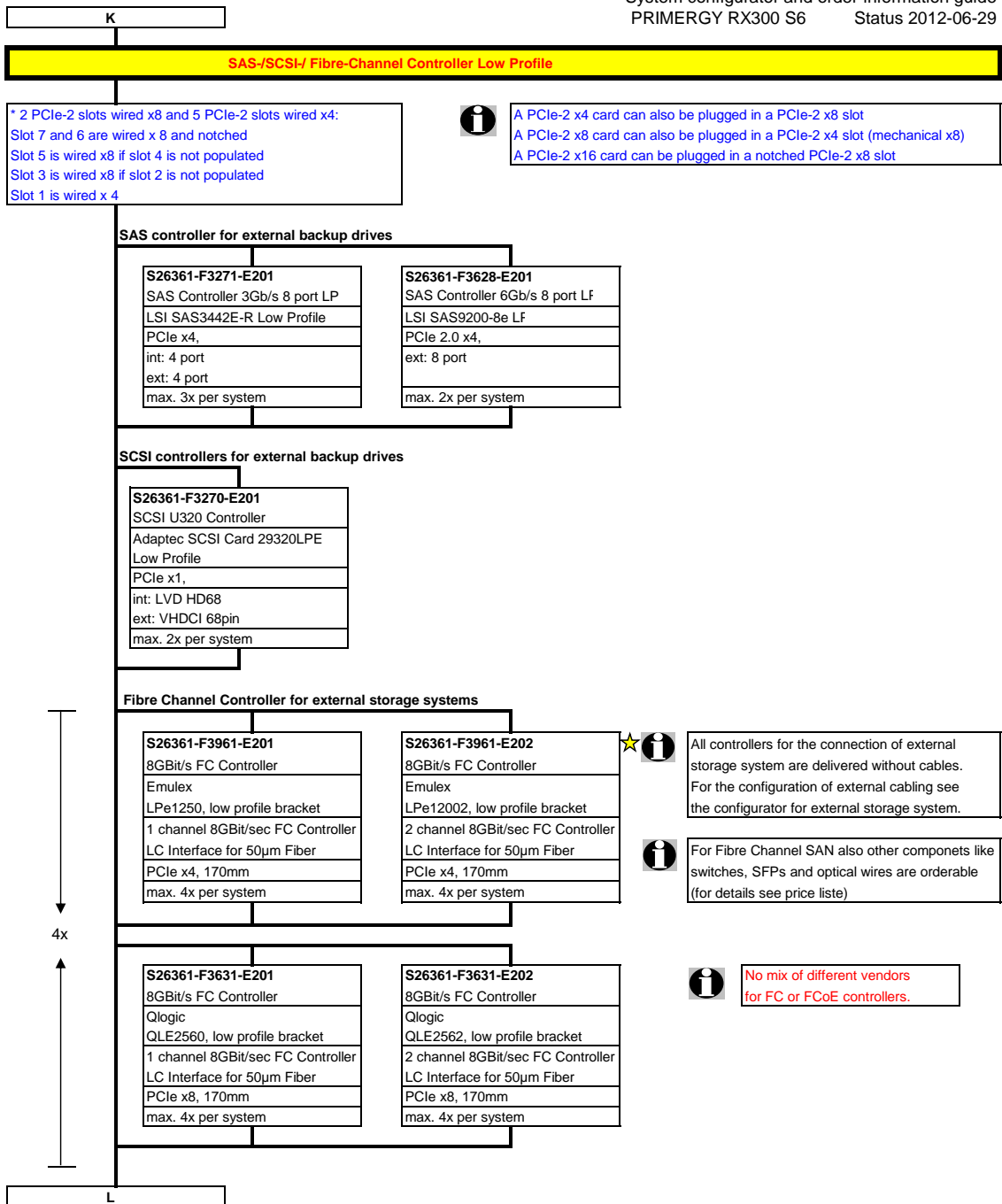
max. 6x (or 4x) per system

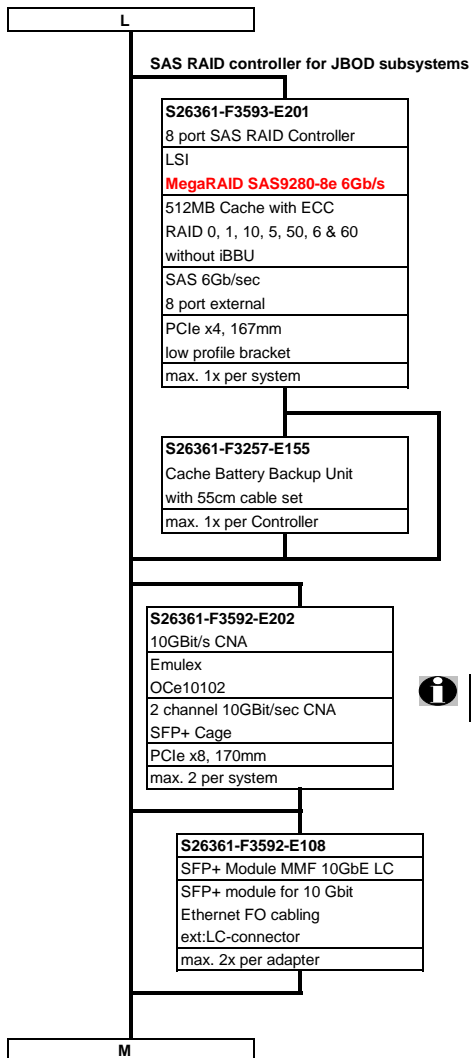


I









BBU max. 1x per system possible
for loose delivery please order
S26361-F3257-L110
BBU not for base unit V8xx

i **Loose Delivery: S26361-F3592-L202**

i All controllers for the connection of external storage systems are delivered without cables. For the configuration of external cabling see the configurator for external storage systems.

i The SFP+ Module is also available as loose delivery S26361-F3592-L108. Instead SFP+ Modules, SFP+ twinax cables from the switch vendors may be used

M

Section VIII Communication / Network

Dual Port GBit on-board LAN Controller

Gigabit Ethernet Controller on-board
 Dual Port GBit LAN controller
 Intel 82575EB (Zoar) *
 ext: for RJ 45-connector
 SW: AFT, VLAN, Fast Channel

Teaming: Failover, Load Balancing

The Intel LAN Controllers 1000TX and 1000SX can be used with the on-board controller in Teaming Mode. Two onboard LAN ports can likewise educate a team.

* Supporting iSCSI boot (also diskless) by system BIOS and native iSCSI initiators

* 2 PCIe-2 slots wired x8 and 5 PCIe-2 slots wired x4:
 Slot 7 and 6 are wired x 8 and notched
 Slot 5 is wired x8 if slot 4 is not populated
 Slot 3 is wired x8 if slot 2 is not populated
 Slot 1 is wired x 4

A PCIe-2 x4 card can also be plugged in a PCIe-2 x8 slot
 A PCIe-2 x8 card can also be plugged in a PCIe-2 x4 slot (mechanical x8)
 A PCIe-2 x16 card can be plugged in a notched PCIe-2 x8 slot

PCI-Express Adapter 1000TX/SX

S26361-F3516-E201 (Shelter Island)
 Gigabit Ethernet Controller 1000TX LP
 Eth Ctrl 1x1Gbit PCI-e Gigabit CT DT Cu LP
 Intel® Gigabit CT Desktop Adapter
 PCIe x1
 ext: for RJ45-connector, Cat 5
 max. 4x per system

S26361-F3241-E201 (Glyndon)
 Gigabit Ethernet Contr. 1000TX
 Eth Ctrl 1x1Gbit PCI-e Pro/1000PT Cu L
 Intel PRO/1000 PT Server Adaptor
 PCIe x1
 ext: for RJ45-connector, Cat 5
 max.4x per system

S26361-F3242-E201 (Sheepshead Bay)
 Gigabit Ethernet Contr. 1000SX
 Eth Ctrl 1x1Gbit PCI-e Pro/1000PF LC LP
 Intel PRO/1000 PF Server Adapter
 PCIe x4
 ext:LC-connector
 max.4x per system

2-Port Copper PCIe Adapter 1000TX

S26361-F3610-E202 (Kawela dual)
 Gigabit Ethernet Controller Dual 1000TX LP
 Eth Ctrl 2x1Gbit PCIe x4 KN Cu Ip
 Intel Kawela based 2 port Server Adapter
 PCIe x4, Low Profile
 ext: for RJ45-plug, Cat 5
 max. 4x per system

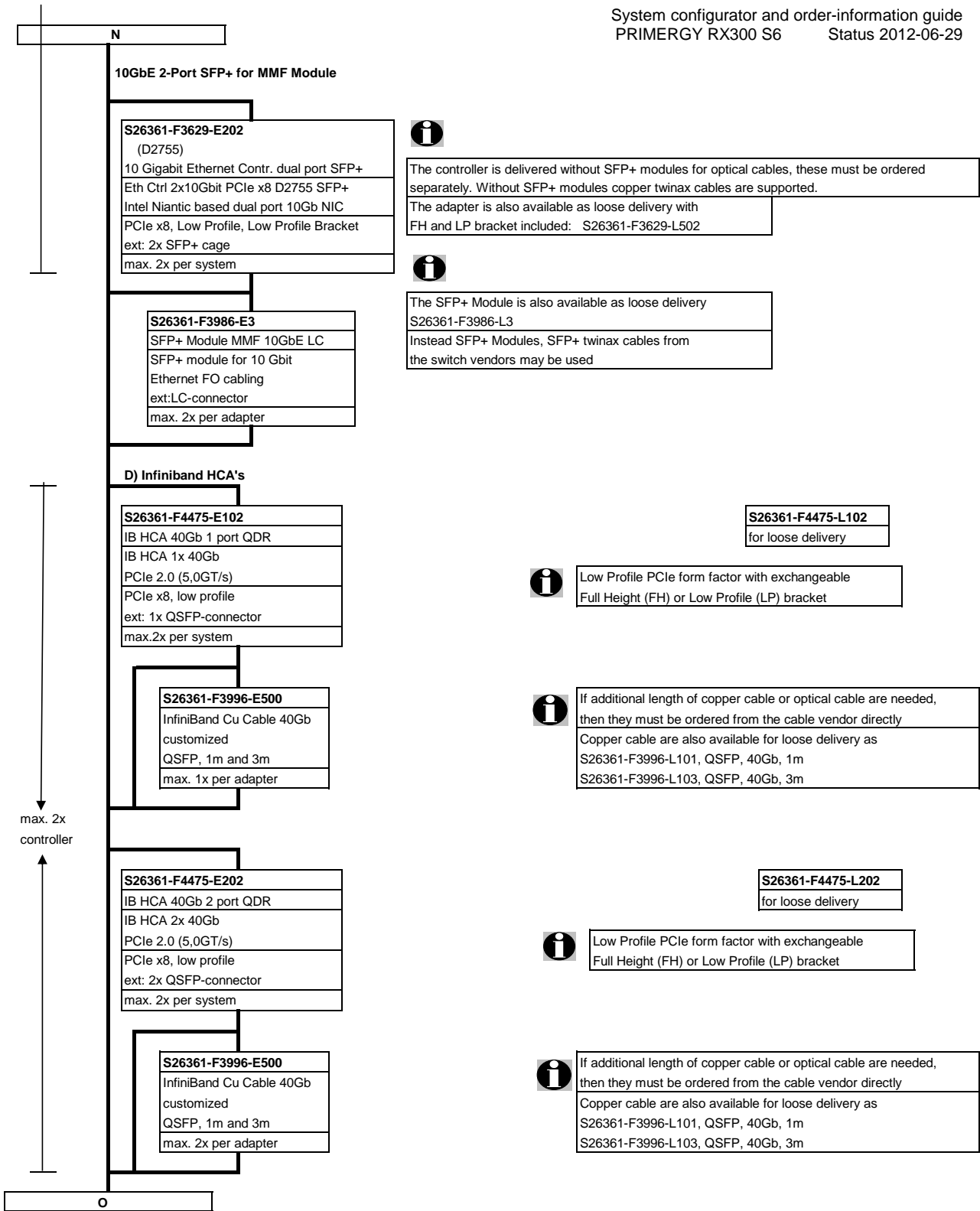
Loose Delivery: S26361-F3610-L502



Quad Port PCIe Adapter 1000TX

S26361-F3611-E201 (Barton Hills Quad) ★
 Gigabit Ethernet Controller Quad 1000TX LP
 Eth Ctrl 4x1Gbit PCIe x4 BH Cu Ip
 Intel Barton Hills based 4 Port Server Ad.
 PCIe x4, low profile
 ext: for RJ45-plug, Cat 5
 max. 4x per system

N



O

Section IX System Management Products (RemoteView)

S26361-F1790-E241 ★
iRMC S2 advanced pack ★
 integrated remote management controller
 activation key for
 graphical console redirection
 and remote media redirection
 max. 1x per system

1x

S26361-F2557-E205 ★
 Local Service Panel incl. mount. kit
 Customer Self Service
 LSP module incl. mounting kit
 0.5" x 5.25"
 max. 1x per system

S26361-F2557-E106 ★
 Local Service Display incl. mount. kit
 Customer Self Service
 LSD module incl. mounting kit
 0.5" x 5.25"
 max. 1x per system

Section X Miscellaneous

Section XI Country specific power cord

i **Options and other peripherals**
 For other options, refer to SystemArchitect and Pricelist.
 These options are supplied loose with the shipment.
 For suitable peripherals for this product, please refer to SystemArchitect.

i **Country specific power cords are not required for rack versions, except for USA&Canada.**
Power cords are shipped in a rack version with inlet connector for non-heating apparatus.
Description in english. Both included in basic unit.
(1x with Standard PSU, 2x with hot plug upgrade)

i **T26139-Y1742-E10** **USA, Canada** ★
 For shipments to USA&Canada, you have to order
 one power cord (1,8m, grey) per power supply.

P

P

Section XVI Energy Star

S26361-F3301-E501
 RX300 S6 E-Star Fam1
 Limits configuration in accordance
 with Energy Star requirements
 max. 1x per system

The following order components out of the specific sections are allowed together with RX300 S6 E-Star Fam1:

★ Marked with blue star!

Turbo Quad-Core CPU's	
- 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT); 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink occupies socket for one CPU	
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W)	S26361-F3618-E240
Xeon E5630 4C/2.53GHz/12M/5,86GT/s (80W)	S26361-F3618-E253
Xeon E5640 4C/2.66GHz/12M/5,86GT/s (80W)	S26361-F3618-E266
Always 2x per system (only one CPU is out of Energy Star specification)	

Registered (reg) RDIMMs (1.5V)	
4GB (1333MHz/SR)	S26361-F3604-E514
min. 2 / max. 18x per system	
SP 12GB (3x 4GB 1333 MHz SR)	S26361-F3604-E534
MM 8GB (2x 4GB 1333MHz SR)	S26361-F3604-E524
min. 2 / max. 6x per system	

4GBit/s Fibre Channel Controller	
Emulex LPe11002	S26361-F3306-E202
min. 0 / max. 2x per system	

Gigabit Ethernet Controller	
Gigabit Ethernet Controller Quad 1000TX	S26361-F3462-E201
min. 0 / max. 3x per system	
Eth Ctrl 2x10Gbit PCIe x8 XF SR LC	S26361-F3505-E201
min. 0 / max. 1x per system	

Raid Controller	
RAID Ctrl SAS 6G 8port internal (Raid 0, 1 & 1E)	S26361-F3554-E8
RAID Ctrl SAS 6G 8port internal (RAID 0, 1, 10, 5, 50, 6, 60)	S26361-F3554-E512
min. 0 / max. 1x per system	

ODD	
DVD-RW supermulti slim SATA	S26361-F3269-E2
Blu-ray Combo slim SATA	S26361-F3531-E2
min. 0 / max. 1x per system	

Hard Disk Drives 3.5" SAS	
HD 300GB 15krpm 3.5"	S26361-F4005-E530
HD 450GB 15krpm 3.5"	S26361-F4005-E545
HD 600GB 15krpm 3.5"	S26361-F4005-E560
HD 146GB 15krpm 3.5"	S26361-F3291-E514
min. 0 / max. 2x per system	

PSU	
800W PSU module / 92% eff	S26113-F555-E10
min. 1 / max. 2x per system	

Q

Q

Section XVI NEBS level3 Certification

S26361-F4511-E1
 RX300S6 NEBS level3 Certification
 Limits configuration in accordance
 with NEBS requirements
 max. 1x per system

The following order components out of the specific sections are allowed together with RX300S6 NEBS level3 Certification:

★ Marked with yellow star!

Turbo Quad-Core CPU's
 - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT);
 1066 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink
 occupies socket for one CPU
Xeon E5620 4C/2.40GHz/12M/5,86GT/s (80W) **S26361-F3618-E240**

Turbo Six-Core CPU's
 - 1x 64-bit Intel Xeon (12MB shared TLC = Third Level Cache); Hyper-Threading (HT);
 1333 MHz DDR3 Bus, 5,86 GT/s QPI Bus and passive heat sink
 occupies socket for one CPU
Xeon E5645 6C/2.40GHz/12M/5,86GT/s (80W) **S26361-F3633-E240**
 min. 1 / max. 2x per system

Registered (reg) RDIMMs (1.5V)
8GB (1333MHz/SR) **S26361-F3604-E515**
 min. 1 / max. 18x per system
SP 24GB (3x 8GB 1333 MHz SR) **S26361-F3604-E535**
MM 16GB (2x 8GB 1333MHz SR) **S26361-F3604-E525**
 min. 1 / max. 6x per system

8GBit/s Fibre Channel Controller
Emulex 8Gb/s 2 channel LPe12002 MMF LC LP **S26361-F3961-E202**
 min. 0 / max. 2x per system

Gigabit Ethernet Controller
Eth Ctrl 4x1Gbit PCIe x4 D2745 Cu Ip **S26361-F3611-E201**
 min. 0 / max. 2x per system

Raid Controller
RAID Ctrl SAS 6G 8port internal (RAID 0, 1, 10, 5, 50, 6, 60) **S26361-F3554-E512**
 min. 0 / max. 1x per system

ODD
no ODD allowed!

Hard Disk Drives 2.5" SAS
HD SAS 6G 300GB 10K HOT PLUG 2.5" EP **S26361-F4482-E130**
 min. 0 / max. 8x per system

PSU
2nd -48V DC power supply 800W **S26113-F576-E50**
 min. 1 / max. 2x per system

End PRIMERGY RX300 S6

