PRIMERGY RX300 S8

System configurator and order-information guide

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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.

Section III

Memory, example

There are X memory slots which can be equipped with XXX MB. It is permissible to make up to X passes through the memory upgrade options.

S26361-XXX-XXX
Memory XXX MB

X times

max. X times per system

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:


https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)
Configuration diagram PRIMERGY RX300 S8

System unit (I)

with up to 6x 3.5" Hard disk drives

Motherboard

<table>
<thead>
<tr>
<th>Bank 1 (4 Modules)</th>
<th>Bank 2 (4 Modules)</th>
<th>Bank 3 (4 Modules)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory CPU1</td>
<td>Memory CPU2</td>
<td></td>
</tr>
<tr>
<td>(Channel A + B + C)</td>
<td>(Channel D + E + F)</td>
<td></td>
</tr>
<tr>
<td>Processor (II)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

front side

<table>
<thead>
<tr>
<th>Bay for LocalView LCD</th>
<th>Bay for 5,25&quot; 0,5&quot; SATA-BR or DVD-ROM/RW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon DP</td>
<td></td>
</tr>
<tr>
<td>Air channel</td>
<td></td>
</tr>
<tr>
<td>2 USB</td>
<td></td>
</tr>
<tr>
<td>VGA, LAN</td>
<td></td>
</tr>
<tr>
<td>Frontpanel</td>
<td></td>
</tr>
<tr>
<td>Bay</td>
<td></td>
</tr>
</tbody>
</table>

Accessible drives (V)

<table>
<thead>
<tr>
<th>Fan 1 - Fan 5</th>
<th>Needs space for 2 hard disk drives!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redundant Fans are standard!</td>
<td>3.5&quot;x1,6&quot;</td>
</tr>
</tbody>
</table>

rear side

<table>
<thead>
<tr>
<th>1. PSU</th>
<th>2. PSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Redundant power supply option</td>
<td></td>
</tr>
</tbody>
</table>

Fan1 - Fan5

Redundant power supply option

Redundant Fans are standard!

Modular RAID Support

<table>
<thead>
<tr>
<th>Raid Card for IME, Raid 0 / 1E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raid Card for Raid 5</td>
</tr>
</tbody>
</table>

Low-profile extension slots for:

| SCSI Controller for backup (VII) |
| SAS Disk Array (VIII)           |
| Communication/Network (IX)      |
| Miscellaneous (X)               |

<table>
<thead>
<tr>
<th>Slot 6 PCIe-3 x16, 210mm @ CPU2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot 5 PCIe-3 x16, 390mm @ CPU2</td>
</tr>
</tbody>
</table>

Hard disk drives (VI)

<table>
<thead>
<tr>
<th>3.5&quot; SAS/SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5&quot;x1&quot; SAS or SATA</td>
</tr>
<tr>
<td>3.5&quot;x1&quot; SAS or SATA</td>
</tr>
<tr>
<td>3.5&quot;x1&quot; SAS or SATA</td>
</tr>
</tbody>
</table>

| Slot 3 PCIe-3 x8, max. 390mm @ CPU1 |
| Slot 2 PCIe-3 x8, max. 312mm @ CPU1 |
| Slot 1 PCIe-3 x8, max. 168mm @ CPU1 white colored |

Slot 7 PCIe-3 x8, max. 168mm @ CPU1 internal slot for modular RAID-Controller

| Dedicated for modular on-board LAN-Controller |

Dedicated for modular on-board LAN-Controller

Key:

- Included in basic unit
- Option

One CPU, one memory per CPU and one PSU has to be selected for an orderable basic unit.
Configuration diagram PRIMERGY RX300 S8

with up to 4, 8, 12 or 16x 2.5" Hard disk drives or up to 4 or 8 PCIe SSDs 2.5"

Memory CPU1
( Channel A + B + C )
Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Memory CPU2
( Channel D + E + F )
Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Xeon DP
Bank 2 (4 Modules)
Bank 3 (4 Modules)
Processor ( II )

Bank 1 (4 Modules)
Xeon DP
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Bank 2 (4 Modules)
Bank 3 (4 Modules)

Bank 1 (4 Modules)
Memory (III )
Processor ( II )

Rear side

1. PSU
2. PSU

Redundant power supply option

Modular RAID Support
Low-profile extension slots for:
SCSI Controller for backup (VII)
SAS Disk Array (VIII)
Communication/Network (IX)
Miscellaneous (X)

Slot 6 PCIe-3 x16, 210mm @ CPU2
Slot 5 PCIe-3 x16, 390mm @ CPU2
Slot 4 PCIe-3 x8, max. 390mm @ CPU1
Possibility to install PCIe x16 cards
Slot 3 PCIe-3 x8, max. 390mm @ CPU1
Slot 2 PCIe-3 x8, max. 312mm @ CPU1
Slot 1 PCIe-3 x8, max. 168mm @ CPU1
Dedicated for modular on-board LAN-Controller
Slot 7 PCIe-3 x8, max. 168mm @ CPU1
Internal slot for modular RAID-Controller

Key:
Included in basic unit
Option
One CPU, one memory per CPU and one PSU has to be selected for an orderable basic unit.
System unit consisting of:
- 2U Housing without power supply modules
- Basic units with:
  - 2 Hot-Plug Power Supply Bays
  - 5 Fans (full redundancy)
  - 12 memory DIMMs per CPU (max 768GB) => Total 24 DIMMs (max 1536GB) for two CPU's
- SAS Backplane for 6x 3.5" HD, SAS Backplanes for 4, 8, 12 or 16x 2.5" HD or PCIe Backplanes for 4 or 8 PCIe SSD with cable connection to on-board, modular RAID Controller

Drives/Bays
- 6 bays 1" for hot plug 3.5" HD (1" high) or 4, 8, 12 or 16 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 12 or 16 x 2.5" HD
- 1 bay for 5.25" and 1.6" high Backup device, not possible for basic unit 6x 3.5" HD for basic unit with 12 or 16 x 2.5" HD
- 1 bay SATA-CD- or DVD-ROM 0.5" height (option)
- 1 bay for opt. LocalView LC-Display

Integrated ServerView Diagnostics Technology (Diagnosis LED's) for indication of internal failed components

Systemboard D2939-B with:
- Up to two Xeon DP CPU's (Socket-R) with 2 serial QPI links (Quick Path Interconnect) and four memory channels per CPU
  First CPU has to be selected for an orderable basic unit,
- Chipset Intel® C600 Series (codenamed Patsburg)
- 7 PCI slots:
  - 2x PCIe-3 x16 (both slots are connected to CPU 2 and are useable with configured 2nd CPU only)
  - 4x PCIe-3 x8 (one notched to install x16 cards)
  - 1x PCIe-3 x8 (for internal modular RAID controller only)

- 24 memory slots for max. 1536GB RAM DDR3 available
  - Memory is divided into 12 DIMMs per CPU (4 channels with 3 slots per channel)
  - Possible max. configurations are:
    16x 8GB UDIMM (dual rank modules) = 128GB
    24x 16GB RDIMM (dual rank modules) = 384GB
    24x 32GB LRDIMM (quad rank modules) = 768GB
    24x 4GB LRDIMM (eight rank modules) = 1536GB

  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 Powerville on-board
- iRMCS4 (integrated Remote Management Controller) on-board server management controller with dedicated 10/100/1000 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 S4 (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)

Interfaces at the rear:
- 1x RS-232-C (serial, 9 pins) (usable for BMC or OS or shared)
- 1x VGA (15 pins)
- 4x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup
- 2x LAN RJ45, 1x Service-LAN RJ45

Interfaces on the front:
- 2x USB 2.0 (UHCI) with 480MBit/s, no USB wakeup
- 1x VGA (15 pins) as an option
- 1x Service-LAN RJ45 as an option

Interfaces internal:
- 1x released internal USB Interfaces for backup devices,
- 1x USB 2.0 (UHCI) with 480MBit/s for dongle functionality (uSSD memory), no USB wakeup
- 1x SATA interface for DVD (only usable with 4x 2.5" HDD x DVD Option)
- 4x SATA/SAS interface for 4 SATA/SAS HD's or SAS Backup device
- 2x USB 2.0 ports for internal USB redirection connected to BMC

Software:
- Documentation engl. (multilingual on CD)
### PRIMERGY RX300 S7

#### Cables included in basic unit

<table>
<thead>
<tr>
<th>Connections</th>
<th>PRIMERGY RX300 S7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. SATA DVD</td>
<td>C</td>
</tr>
<tr>
<td>2. SAS cables to HDDs</td>
<td>C, C</td>
</tr>
<tr>
<td>3. 1x cable for SAS signaling</td>
<td>C</td>
</tr>
</tbody>
</table>

Note: Rack Mounting kit and Power Cord for RX300S7 is not included in the basic unit and has to be configured separately.

**Rack version for 19'' racks with**

- **No PSU included in Base Unit**
- **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 fixed** S26361-K1457-V101
- **Basic unit with 2.5'' HDD bays expandable** S26361-K1457-V401
- **Basic unit with 8x 2.5'' HDD bays fixed** S26361-K1457-V201
- **Basic unit with 12x 2.5'' HDD bays fixed** S26361-K1457-V301

Basic unit with 2.5'' HDD bays is modular expandable with various modules for backup devices integration or up to 16x 2.5'' HDDs. Details and pictures see Section V4a.

Possible configuration options for basic units:

- **6x 3.5'' HDD bays fixed** S26361-K1457-V101
- **2.5'' HDD bays expandable** S26361-K1457-V401
- **8x 2.5'' HDD bays fixed** S26361-K1457-V201
- **12x 2.5'' HDD bays fixed** S26361-K1457-V301

Full redundancy cannot be guaranteed for a max. config. with e.g. two 135W CPUs with 450W PSUs. In this case SysArch will generate a warning and Power Safeguard will throttle CPUs in case of a PSU failure. So, power consumption will be limited to 450W.

**Power Supply Dummy**

- **450W PSU module platinum**
- **800W PSU module platinum**
- **800W PSU module -48V DC gold**
- **800W PSU module titanium**

- **1st or 2nd PSU for redundancy**

- **uses hot plug PSU slot**

- **min. 1 / max. 2x per system**

For later redundancy upgrade the following kit is available:

- **One 450W power supply module hot plug** S26113-F574-E12
- **One 800W power supply module hot plug** S26113-F574-E99 *

Please order appropriate power cord additionally:

- **Powercord for rack, 4m, grey, IEC320 C13->C14 connector** T26139-Y1968-L10
- **Power Cord USA / Canada, 1.8m, grey** T26139-Y1742-L10
- **Power Cord -48V DC, 4m, black** T26139-Y4024-L10

**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.
Further information for
rack mounting is available
within the
Corporate Partner Portal

All "L" no's for loose delivery

Adapter angle PC/DC-Rack, till 50Kg
necessary for mounting RMKs in
asymmetrical PC racks

best choice for PrimeCenter racks
with CMA adapter

best choice for 3rd party racks
with CMA adapter

best choice for 3rd party racks
w/o CMA adapter

Bracket 1U in asymmetrical racks
Mounting of RMK in symmetrical racks
(no support brackets needed)

Lateral cable management
for 2U servers or higher

- for asymmetrical racks
PRIMECENTER S2 or M1
- 1 bracket PC Rack asym.

1x per system

Mounting of RMK in asymmetrical racks
(no support brackets needed)

1x per system

Lateral cable management (optionally)
can only be mounted
in asymmetrical PRIMECENTER
S2 or new M1 racks in 1U above RMK

1x per system

"Rack-mounting ex factory"
This service is to be ordered once
per installable server/storage
subsystem, in order to get the
server/storage subsystem
mounted into the racks.
In case of not-installed server and subsystems
this service has to be ordered,
to get the mounting kits and the
cables installed.

PRIMECENTR Classic 19" rack is not supported
There are 2 processor sockets available. The first socket must always be 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. Both PCIe-3 x16 slots are connected to CPU 2 and are useable with configured 2nd CPU only! Two processors with different clock frequencies are not possible. A multi-processor operating system is required for a dual-processor system.

<table>
<thead>
<tr>
<th>Max. two CPU's can be selected per basic unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of following CPU’s has to be selected as first CPU for an orderable basic unit</td>
</tr>
<tr>
<td>Optional second CPU has to be the same type like the first CPU</td>
</tr>
</tbody>
</table>

### Basic 4C CPU's
- 1x 64-bit Intel Xeon (10MB Smart Cache)
- 1333 MHz DDR3 Bus; 6.40 GT/s QPI Bus and passive heat sink
- Occupies socket for one CPU

<table>
<thead>
<tr>
<th>CPU Model</th>
<th>Frequency</th>
<th>Cache Size</th>
<th>Bus Speed</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2603v2</td>
<td>1.80GHz</td>
<td>10MB</td>
<td>1333MHz 80W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2609v2</td>
<td>2.50GHz</td>
<td>10MB</td>
<td>1333MHz 80W</td>
<td></td>
</tr>
</tbody>
</table>

### Standard Turbo 6C/8C CPU's
- 1x 64-bit Intel Xeon (15/20MB Smart Cache); Hyper-Threading (HT);
- 1600 MHz DDR3 Bus; 7.20 GT/s QPI Bus and passive heat sink
- Occupies socket for one CPU

<table>
<thead>
<tr>
<th>CPU Model</th>
<th>Frequency</th>
<th>Cache Size</th>
<th>Bus Speed</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2620v2</td>
<td>2.10GHz</td>
<td>15MB</td>
<td>1600MHz 80W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2630v2</td>
<td>2.60GHz</td>
<td>15MB</td>
<td>1600MHz 80W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2640v2</td>
<td>2.00GHz</td>
<td>20MB</td>
<td>1600MHz 95W</td>
<td></td>
</tr>
</tbody>
</table>

### Advanced Turbo+ 8C/10C CPU's
- 1x 64-bit Intel Xeon (20/25MB Smart Cache); Hyper-Threading (HT);
- 1866 MHz DDR3 Bus; 8.00 GT/s QPI Bus and passive heat sink
- Occupies socket for one CPU

<table>
<thead>
<tr>
<th>CPU Model</th>
<th>Frequency</th>
<th>Cache Size</th>
<th>Bus Speed</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2650v2</td>
<td>2.60GHz</td>
<td>20MB</td>
<td>1866MHz 95W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2660v2</td>
<td>2.20GHz</td>
<td>25MB</td>
<td>1866MHz 95W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2667v2</td>
<td>2.30GHz</td>
<td>25MB</td>
<td>1866MHz 115W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2690v2</td>
<td>3.00GHz</td>
<td>25MB</td>
<td>1866MHz 130W</td>
<td></td>
</tr>
</tbody>
</table>

### Segment Optimized CPU's
- 1x 64-bit Intel Xeon (15/25/30MB Smart Cache); Hyper-Threading (HT);
- 1866 MHz DDR3 Bus; 8.00 GT/s QPI Bus and passive heat sink
- Occupies socket for one CPU

<table>
<thead>
<tr>
<th>CPU Model</th>
<th>Frequency</th>
<th>Cache Size</th>
<th>Bus Speed</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2677v2</td>
<td>3.50GHz</td>
<td>15MB</td>
<td>1866MHz 130W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2643v2</td>
<td>3.50GHz</td>
<td>25MB</td>
<td>1866MHz 130W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2667v2</td>
<td>3.00GHz</td>
<td>25MB</td>
<td>1866MHz 115W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2677v2</td>
<td>3.00GHz</td>
<td>25MB</td>
<td>1866MHz 130W</td>
<td></td>
</tr>
</tbody>
</table>

### Low Power 6C/10C CPU's
- 1x 64-bit Intel Xeon (15/25MB Smart Cache); Hyper-Threading (HT);
- 1600 MHz DDR3 Bus; 7.20/8.00 GT/s QPI Bus and passive heat sink
- Occupies socket for one CPU

<table>
<thead>
<tr>
<th>CPU Model</th>
<th>Frequency</th>
<th>Cache Size</th>
<th>Bus Speed</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2630Lv2</td>
<td>2.40GHz</td>
<td>15MB</td>
<td>1600MHz 60W</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2650Lv2</td>
<td>1.70GHz</td>
<td>25MB</td>
<td>1600MHz 70W</td>
<td></td>
</tr>
</tbody>
</table>

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
For CPUs which do not offer 1866 MHz support, (Basic, Standard & Low Power class), System Architect will not offer memory modules supporting this frequency.
Section IV Graphics

Graphics Controller integrated in iRMC S3 (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)

Optional Front-VGA

Max. 1x per system

S26361-F2571-E26
Optional Front-VGA
for Onboard Controller only

Optional Front-VGA S26361-F2571-E26 cannot be ordered if NVS300 is required.
Remote Video direction via iRMC must be disabled.

PY VGA LP card 256MB PCI-e x1
NVIDIA NVS300
512 MB PCIe x1

Connectors: 1x LFH 59
cable kit for 2x DVI or 2x VGA
cable kits included
Dual head + professional 2-D + 3-D
Supported for Windows OS
Native driver support for Linux OS

Max. 1x per system

S26361-F2748-E637
PY VGA LP card 256MB PCI-e x1

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

Max. 1x per system

PY VGA card must be installed in slot 4 (x8 wired x8)
Section III Memory

- There are 12 memory slots per CPU for max.
  768GB LRDIMM (12x 64GB 8R)
  192GB RDIMM (12x 16GB 2R)
  64GB UDIMM (8x 8GB) on special release only
  >= max. 1.536GB for two CPU’s (768GB per CPU), using LRDIMM
  - The Memory area is divided into 4 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, slot 3 belongs to memory bank 3

Registered, LR DIMMs and unbuffered memory modules can be selected
No mix of registered, load reduced and unbuffered modules allowed.
Memory can be operated at 1.5V or 1.35V, even if the modules are of low voltage type.
Memory operating voltage can be set within BIOS (1.5V is default setting for max. speed).
In a single DIMM per channel configuration, following frequencies are supported:
- 1.5V - 1866MHz max (depending on CPU)
- 1.35V - 1600MHz max (depending on CPU, up to two LRDIMM per channel)
- 1.35V - 1333MHz max (up to two UDIMM or RDIMM per channel)
In a 3 DIMMs per channel configuration, memory will operate at 1.35V or 1.5V (no UDIMM allowed).
SDD (Chipkill) is supported for registered / load reduced x4 organized memory modules only.

1.) In the “Independent Channel Mode” is following configuration possible
Channels can be populated in any order in Independent Channel Mode. All four
channels may be populated in any order and have no matching requirements. All
channels must run at the same interface frequency but individual channels may run at
different DIMM timings (RAS latency, CAS latency, and so forth)
No mix of registered, load reduced and unbuffered modules allowed.

2.) “Rank Sparing Mode” configuration
   - Within a memory channel, one rank is a spare of the other ranks.
   - The Spare Rank is held in reserve and is not available as system memory
   For the effective memory capacity, please refer to the spreadsheet below.
   The BIOS is set to the rank sparing setting.
   Minimum configuration is: 2x 1R, 2x 2R or 1x4R DDR3 module per channel
   This mode is not supported by unbuffered memory modules

3.) “Performance Mode” configuration
   - In this configuration, the memory module population ex factory is spread across all channels.
   - The BIOS is set to the max. performance for memory.
   Minimum configuration is: 4x identical modules

4.) In the “Mirrored Channel Mode” is following configuration possible
   - Each memory bank can optionally be equipped with 4x registered or load reduced or unbuffered DDR3 modules
   In each memory bank channel A and B / C and D of CPU 1 or channel E and F / G and H of CPU 2 have to be equipped with identical modules for mirrored channel mode.
   - In channel B / D is always the mirrored memory of channel A / B of CPU 1
   In channel F / H is always the mirrored memory of channel E / G of CPU 2
   Minimum configuration is: 4x identical modules
   This mode is not supported by unbuffered memory modules
Independent Mode
Independent Channel Mode allows all channels to be populated in any order. No specific Memory RAS features are defined.
Requires min 1 memory Module per CPU

Rank Sparing Mode Installation
BIOS Setup factory preinstalled to this mode. One Rank is spare of other ranks on the same channel. Spare Rank is not shown in System Memory.
For effective capacity within a channel, please have a look below.
Supported for RDIMM / LRDIMM only.
Requires min 2x 1R/2R or 1x 4R modules per CPU

Performance Mode Installation
BIOS Setup factory preinstalled for max. Performance, LV memory might be set to 1.5V operation. Four identical memory modules will be equipped in one memory bank to achieve highest memory performance. All four modules are active and full capacity can be used.
Multiple of 4 identical modules to be configured per CPU

Mirrored Channel Mode Installation
BIOS Setup factory preinstalled to this mode. Four identical memory modules are always equipped in one memory bank to use the Mirrored channel Mode. Only two modules contain active data, the remain two modules contain mirrored data
Supported for RDIMM / LRDIMM only.
Multiple of 4 identical modules to be configured per CPU

Effective Memory capacity / Rank Sparing Mode, 1 Channel populated

<table>
<thead>
<tr>
<th>RDIMM</th>
<th>LRDIMM</th>
</tr>
</thead>
<tbody>
<tr>
<td>4GB</td>
<td>8GB</td>
</tr>
<tr>
<td>8GB</td>
<td>8GB</td>
</tr>
<tr>
<td>16GB</td>
<td>16GB</td>
</tr>
<tr>
<td>32GB</td>
<td>32GB</td>
</tr>
<tr>
<td>64GB</td>
<td>64GB</td>
</tr>
</tbody>
</table>

Minimum one memory module or order code per CPU = first memory

Unbuffered Memory (UDIMM) no SDDC (chipkill) support
- one DDR3 unbuffered ECC mem. Module, 1.35V
Choose up to 8 order codes per CPU
8GB (1x8GB) 2Rx8 L DDR3-1600 U ECC S26361-F3807-E515

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.35V
1333MHz supported with up to 2DPC (8 modules/CPU) and 1.35V
1600MHz supported with up to 2DPC (8 modules/CPU) and 1.5V
Choose up to 12 order codes per CPU
4GB (1x4GB) 1Rx4 L DDR3-1600 R ECC S26361-F3781-E514
8GB (1x8GB) 1Rx4 L DDR3-1600 R ECC S26361-F3781-E515
16GB (1x16GB) 2Rx4 L DDR3-1600 R ECC S26361-F3781-E516

Registered Memory (RDIMM) with SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.9V
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU
16GB (1x16GB) 2Rx4 DDR3-1866 R ECC S26361-F3793-E516

Registered Memory (RDIMM) no SDDC (chipkill) support
- one DDR3 registered ECC mem. Module, 1.9V
No mix with any other types of memory modules possible
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU
8GB (1x8GB) 2Rx8 DDR3-1866 R ECC S26361-F3793-E515

Load Reduced Memory (LRDIMM) with SDDC (chipkill) support
- one DDR3 load reduced ECC mem. Module, 1.35V
Choose up to 12 order codes per CPU
32GB (1x32GB) 4Rx4 L DDR3-1600 LR ECC S26361-F3782-E517
64GB (1x64GB) 8Rx4 L DDR3-1333 LR ECC S26361-F3783-E518

Load Reduced Memory (LRDIMM) with SDDC (chipkill) support
- one DDR3 load reduced ECC mem. Module, 1.5V
1866MHz supported with up to 2DPC (8 modules/CPU)
Choose up to 12 order codes per CPU
32GB (1x32GB) 4Rx4 DDR3-1866 LR ECC S26361-F3848-E517

Max. DDR3 memory speed depends on the memory configuration (No of mem modules per channel) as well as on the CPU type.
The memory channel with the lowest speed defines the speed of all CPU channels in the system, also for the channels of the second CPU if configured.
For real memory speed (depending on memory type / population), please check the spreadsheet "Memory speed" below

Mix of memory modules is only possible within the same group
Memory Configuration PRIMERGY RX300 S8

Each CPU offers 12 Slots for DDR3 Memory Modules organised in 3 Banks and 4 Channels.
Depending on the amount of memory configured you can decide between 4 basic modes of operation (see explanation below).

There are 3 different kinds of DDR3 Memory Modules available: UDIMM / RDIMM and LRDIMM
UDIMM / RDIMM / LRDIMM offer different functionality. Mix of UDIMM / RDIMM / LRDIMM is not allowed.

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

<table>
<thead>
<tr>
<th>Mode</th>
<th>Configuration</th>
<th>UDIMM</th>
<th>RDIMM</th>
<th>LRDIMM</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDDC (chipkill) support</td>
<td>any</td>
<td>x8</td>
<td>x8</td>
<td>x4</td>
<td>detect multi-bit errors</td>
</tr>
<tr>
<td>Independent Channel Mode</td>
<td>1, 2 or 3 Modules per Bank</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>offers max. flexibility, upgradeability, capacity use UDIMM modules for lowest cost</td>
</tr>
<tr>
<td>Mirrored Channel Mode *)</td>
<td>4 identical Modules / Bank</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>offers maximum security</td>
</tr>
<tr>
<td>Performance Mode</td>
<td>4 identical Modules / Bank</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td>offers maximum performance and capacity</td>
</tr>
<tr>
<td>Rank Sparing Mode *)</td>
<td>min. 2 Ranks / Channel</td>
<td>no</td>
<td>no</td>
<td>yes</td>
<td>balances security and capacity</td>
</tr>
</tbody>
</table>

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

Capacity

<table>
<thead>
<tr>
<th>Min. Memory per CPU</th>
<th>1 Module / CPU</th>
<th>1x4GB</th>
<th>1x4GB</th>
<th>1x32GB</th>
<th>with one CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Memory per CPU</td>
<td>16/12 Modules / CPU</td>
<td>64GB</td>
<td>384GB</td>
<td>1536GB</td>
<td>if second CPU is configured</td>
</tr>
<tr>
<td>Max. Memory per System</td>
<td>16/24 Modules / System</td>
<td>128GB</td>
<td>768GB</td>
<td>3072GB</td>
<td></td>
</tr>
</tbody>
</table>

Memory-Speed:

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

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

<table>
<thead>
<tr>
<th>Mem. Speed provided by CPU</th>
<th>Real maximum memory-bus speed depending on CPU type, memory configuration (DPC) and voltage setting (BIOS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage setting (BIOS)</td>
<td>1.5V [default]</td>
</tr>
<tr>
<td>1  DPC</td>
<td>2  DPC</td>
</tr>
<tr>
<td>CPU with 1666MHz DDR3 Bus</td>
<td>1466</td>
</tr>
<tr>
<td>CPU with 1600MHz DDR3 Bus</td>
<td>1460</td>
</tr>
</tbody>
</table>

1R - Single Rank  4R - Quad Rank  
2R - Dual Rank    8R - Eight Rank

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

Configuration hints:

- The memory sockets on the system board 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 1/2: up to 4 memory modules connected to Channel A - H on the 1st/2nd CPU
  - Bank II on CPU 1/2: up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU (can not be populated by UDIMM or 4R RDIMM memory modules)
  - Bank III on CPU 1/2: up to 4 memory modules connected to Channel A - E on the 1st/2nd CPU (can not be populated by UDIMM or 4R RDIMM memory modules)

- 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 slowest DIMM installed in the system.

2. Mirrored Channel Mode

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

3. Performance Channel Mode

Performance Channel Mode requires identical modules on all channels of each Bank per CPU. If this mode is used, a multiple of 4 identical modules has to be ordered.
4. Rank Sparing Mode

1-Rank Memory modules (RDIMM)

<table>
<thead>
<tr>
<th>Bank I</th>
<th>Ch1</th>
<th>Ch2</th>
<th>Ch3</th>
<th>Ch4</th>
</tr>
</thead>
<tbody>
<tr>
<td>(black)</td>
<td>Spare</td>
<td>Spare</td>
<td>Spare</td>
<td>Spare</td>
</tr>
<tr>
<td>Bank II</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(blue)</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Bank III</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(green)</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
</tbody>
</table>

1st XEON CPU (4/6/8 Core)  2nd XEON CPU (4/6/8 Core)

2-Rank Memory modules (RDIMM)

<table>
<thead>
<tr>
<th>Bank I</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>(black)</td>
<td>Spare</td>
<td>Data</td>
</tr>
<tr>
<td>Bank II</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(blue)</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Bank III</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(green)</td>
<td>Data</td>
<td>Data</td>
</tr>
</tbody>
</table>

1st XEON CPU (4/6/8 Core)  2nd XEON CPU (4/6/8 Core)

4-Rank Memory modules (LRDIMM)

<table>
<thead>
<tr>
<th>Bank I</th>
<th>R1</th>
<th>R2</th>
<th>R3</th>
<th>R4</th>
</tr>
</thead>
<tbody>
<tr>
<td>(black)</td>
<td>Spare</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Bank II</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(blue)</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>Bank III</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
<tr>
<td>(green)</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
<td>Data</td>
</tr>
</tbody>
</table>

1st XEON CPU (4/6/8 Core)  2nd XEON CPU (4/6/8 Core)

Rank Sparing Mode requires identical modules (same capacity and technology) within the same channel.
The available memory for applications will vary depending on configuration. Please refer to the spreadsheet above.
"Effective Memory capacity with active Rank Sparing Mode". Population rule for Rank sparing mode is to achieve max.
available memory, e.g. 8 DIMMs will be spread across two channels, each with 3DPC.
Possible configuration options for basic units

Config 1: 6x or 4x 3.5" HDD + 3.5" DDS/RDX drive
Is fixed due to selection of basic unit with:
6x 3.5" HDD bays fixed S26361-K1457-V101
SAS3.0 available since Q2/2014 no PCIe SSD SFF

Basic unit S26361-K1457-V401 with
Config 2: 4x 2.5" HDD S26361-F1373-E420

Available Upgrade kits for this configuration option:
Upgrade kit to 8x 2.5" HDD S26361-F1373-L424
Upgrade kit to 12x 2.5" HDD S26361-F1373-L427
Upgrade kit to 4x 2.5" HDD + LTO S26361-F1373-L423
Upgrade kit to 4x + 8x 2.5" SAS3.0 S26361-F1373-L572

Basic unit S26361-K1457-V401 with expandable
Config 3: 4x 2.5" HDD + LTO S26361-F1373-E430
Basic unit S26361-K1457-V401 with expandable

Available Upgrade kits for this configuration option:
Upgrade kit to 8x 2.5" HDD S26361-F1373-L436

Basic unit S26361-K1457-V201 with
Config 4: 8x 2.5" HDD bays fixed S26361-K1457-V201
Available Upgrade kits for this fixed configuration:
Upgrade kit to 12x 2.5" HDD S26361-F1373-L247
Upgrade kit to 16x 2.5" HDD S26361-F1373-L248

Basic unit S26361-K1457-V401 with expandable
Config 5: 8x 2.5" HDD + 3.5" drive S26361-F1373-E450

Config 12: 3.5" drive + 8x SAS3.0 S26361-F1373-E550
No Upgrade kit available!

Basic unit S26361-K1457-V401 with expandable
Config 6: 8x 2.5" HDD + LTO S26361-F1373-E460

Config 15: LTO + 8x SAS3.0 S26361-F1373-E560
no ODD and LSD bay available!
No Upgrade kit available!

Basic unit S26361-K1457-V301 with
Config 7: 12x 2.5" HDD bays fixed S26361-K1457-V301
Basic unit S26361-K1457-V401 with expandable
Config 10: 4x SAS2.0 + 8x SAS3.0 S26361-F1373-E572
Note: 4x SAS2.0 connected to on-board RAID Ctrl!
Available Upgrade kits for this configurations:
Upgrade kit to 16x 2.5" HDD S26361-F1373-L378

Basic unit S26361-K1457-V401 with expandable
Config 8: 16x 2.5" HDD S26361-F1373-E480
no ODD and LSD bay available!
No Upgrade kit available!

*) these are the only noHDD/SSD configuration opportunity without needed RAID controller
Section Vb

### Accessible drives

Setup RX300 S7 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

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3269-E2</td>
<td>DVD-RW supermulti slim SATA</td>
<td>1x</td>
</tr>
<tr>
<td></td>
<td>all formats, DUAL/DL, DVD-RAM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.5 x 5.25&quot;, black bezel</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

**USB 3.0 adapter**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3749-E201</td>
<td>1x USB 3.0 PCIe x1 adapter card lp Sunrich U-720</td>
<td></td>
</tr>
<tr>
<td></td>
<td>PCIe x1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 port intern, 1 port extern</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USB 3.0 A jacks</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

- **RDX drives perform better with USB 3.0 Controller**

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3750-E5</td>
<td>RDX Drive USB3.0 3.5&quot; internal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Connector: USB 3.0 &quot;B&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>with USB cable</td>
<td></td>
</tr>
<tr>
<td></td>
<td>without RDX cartridges</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.6 x 3.5&quot;, black bezel</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

**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**
  - **RDX Drive USB3.0 3.5" internal**
  - **USB 3.0 Controller**

  - **Connector: USB 3.0 "B"**
  - **within tape cage with USB cable**
  - **without RDX cartridges**
  - Max. 1x per system

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3750-E7</td>
<td>RDX Drive USB3.0 3.5&quot; internal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Connector: USB 3.0 &quot;B&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>without RDX cartridges</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.6 x 3.5&quot;, black bezel</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

- **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-L20** 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!
## SAS Controller for internal Backup Drives

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3674-E1</td>
<td>Onboard 4 port SAS Controller, LSI Patsburg B, RAID 0, 1 &amp; 10, no controller cache, SAS 1.0 (3Gb/sec), 4 internal ports, PCIe x4, no PCI slot required, RAID 0, 1 &amp; 10, no controller cache, SAS 1.0 (3Gb/sec), 4 internal ports, PCIe x4, no PCI slot required, max. 1x per system</td>
</tr>
</tbody>
</table>

*For external SAS Backup drives*

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3626-E2</td>
<td>Tape drive LTO4 HH SAS IBM V2, 800GB, 120MB/s, SAS 6Gb, Connector: mini-SAS, incl. SAS cable, incl. cleaning cartridge, without data cartridge, max. 1x per system</td>
</tr>
<tr>
<td>S26361-F3627-E1</td>
<td>Tape drive LTO5 HH Ultrium SAS, 1500GB, 140MB/s, SAS 6Gb, Connector: mini-SAS, incl. SAS cable, incl. cleaning cartridge, without data cartridge, max. 1x per system</td>
</tr>
<tr>
<td>S26361-F3787-E1</td>
<td>Tape drive LTO6 HH Ultrium SAS, 2500GB, 160MB/s, SAS 6Gb, Connector: mini-SAS, incl. SAS cable, incl. cleaning cartridge, without data cartridge, max. 1x per system</td>
</tr>
</tbody>
</table>

*Only for basic unit V4xx*

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**system configurator and order-information guide**

**PRIMERGY RX300 S8**

**Status 2014-09-30**

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**Fujitsu PRIMERGY Server**

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### VI Hard Disk 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.
- *) SSD Mainstream Endurance 10DWPD over 5y.

#### SATA Disk Drive 3.5"

<table>
<thead>
<tr>
<th>Capacity</th>
<th>RPM</th>
<th>Cache</th>
<th>Model/Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>900GB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F3670-E100</td>
</tr>
<tr>
<td>1TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F3670-E100</td>
</tr>
<tr>
<td>2TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F3670-E200</td>
</tr>
<tr>
<td>3TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F3670-E300</td>
</tr>
<tr>
<td>4TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F3670-E400</td>
</tr>
</tbody>
</table>

Max. 6x per System

#### SAS Disk Drive 3.5"

<table>
<thead>
<tr>
<th>Capacity</th>
<th>RPM</th>
<th>Cache</th>
<th>Model/Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>300GB</td>
<td>15000</td>
<td>&lt;4.0ms</td>
<td>S26361-F4005-E530</td>
</tr>
<tr>
<td>450GB</td>
<td>15000</td>
<td>&lt;4.0ms</td>
<td>S26361-F4005-E545</td>
</tr>
<tr>
<td>600GB</td>
<td>15000</td>
<td>&lt;4.0ms</td>
<td>S26361-F4005-E560</td>
</tr>
<tr>
<td>1TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F5241-E100</td>
</tr>
<tr>
<td>2TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F5241-E200</td>
</tr>
<tr>
<td>3TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F5241-E300</td>
</tr>
<tr>
<td>4TB</td>
<td>7200</td>
<td>&lt;9.0ms</td>
<td>S26361-F5241-E400</td>
</tr>
</tbody>
</table>

Max. 6x per System

#### Solid State Disk Drive 3.5", Mainstream Endurance*

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model/Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>100GB</td>
<td>S26361-F5319-E100</td>
</tr>
<tr>
<td>200GB</td>
<td>S26361-F5319-E200</td>
</tr>
<tr>
<td>400GB</td>
<td>S26361-F5319-E400</td>
</tr>
<tr>
<td>800GB</td>
<td>S26361-F5319-E800</td>
</tr>
</tbody>
</table>

#### SSD SAS 12Gb/s 2.5" within 3.5" hot plug/hot replace tray

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model/Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>200GB</td>
<td>as soon as available</td>
</tr>
<tr>
<td>400GB</td>
<td>as soon as available</td>
</tr>
<tr>
<td>800GB</td>
<td>as soon as available</td>
</tr>
<tr>
<td>1.6TB</td>
<td>as soon as available</td>
</tr>
</tbody>
</table>

Max. 6x per System
### Solid State Disk 2.5”, Mainstream Endurance*

<table>
<thead>
<tr>
<th>SSD SATA 6Gb/s 2.5” with hot plug/hot replace tray</th>
<th>as long as stock</th>
</tr>
</thead>
<tbody>
<tr>
<td>100GB MLC, Mainstream Performance</td>
<td>S26361-F5225-E100</td>
</tr>
<tr>
<td>200GB MLC, Mainstream Performance</td>
<td>S26361-F5225-E200</td>
</tr>
<tr>
<td>400GB MLC, Mainstream Performance</td>
<td>S26361-F5225-E400</td>
</tr>
<tr>
<td>100GB, Mainstream Performance</td>
<td>S26361-F5303-E100</td>
</tr>
<tr>
<td>200GB, Mainstream Performance</td>
<td>S26361-F5303-E200</td>
</tr>
<tr>
<td>400GB, Mainstream Performance</td>
<td>S26361-F5303-E400</td>
</tr>
<tr>
<td>600GB, Mainstream Performance</td>
<td>S26361-F5303-E600</td>
</tr>
</tbody>
</table>

### SSD SATA 6Gb/s 2.5” with hot plug/hot replace tray

<table>
<thead>
<tr>
<th>SSD SAS 6Gb/s 2.5” with hot plug/hot replace tray</th>
<th>as long as stock</th>
</tr>
</thead>
<tbody>
<tr>
<td>100GB MLC, Enterprise Performance</td>
<td>S26361-F4961-E100</td>
</tr>
<tr>
<td>200GB MLC, Enterprise Performance</td>
<td>S26361-F4961-E200</td>
</tr>
</tbody>
</table>

### Solid State Disk Drive, Mainstream Endurance*

<table>
<thead>
<tr>
<th>SSD SAS 12Gb/s 2.5” with hot plug/hot replace tray</th>
<th>SAS 12Gb/s support only with PRAID (RA400i (Cougant), &quot;F5045-E1 and max. 8x per System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200GB, Enterprise Performance</td>
<td>S26361-F5297-E200</td>
</tr>
<tr>
<td>400GB, Enterprise Performance</td>
<td>S26361-F5297-E400</td>
</tr>
<tr>
<td>1,1TB, Enterprise Performance</td>
<td>S26361-F5297-E160</td>
</tr>
</tbody>
</table>

### SAS Disk Drive 2.5”

**HDD SAS 6Gb/s 2.5” with hot plug/hot replace tray**

| max. 8x for V2xx, 12x for V3xx, 16x for V4xx |

<table>
<thead>
<tr>
<th>HDD SAS 6Gb/s 2.5” with hot plug/hot replace tray</th>
<th>max. 8/12/16x per system, max. 8x 12Gb/s support</th>
</tr>
</thead>
<tbody>
<tr>
<td>300GB 10000rpm, &lt;4,5ms, 32MB Cache</td>
<td>S26361-F5247-E130</td>
</tr>
<tr>
<td>450GB 10000rpm, &lt;4,5ms, 32MB Cache</td>
<td>S26361-F5247-E145</td>
</tr>
<tr>
<td>600GB 10000rpm, &lt;4,5ms, 32MB Cache</td>
<td>S26361-F5247-E160</td>
</tr>
<tr>
<td>900GB 10000rpm, &lt;4,5ms, 32MB Cache</td>
<td>S26361-F5247-E190</td>
</tr>
<tr>
<td>1,2TB 10000rpm, &lt;4,5ms, 64MB Cache</td>
<td>S26361-F5247-E112</td>
</tr>
<tr>
<td>146GB 15krpm, &lt;4,5ms, 16MB Cache</td>
<td>S26361-F4482-E514</td>
</tr>
<tr>
<td>300GB 15krpm, &lt;4,5ms, 32MB Cache</td>
<td>S26361-F4482-E530</td>
</tr>
<tr>
<td>500GB 7.2krpm, &lt;9,5ms, 64MB Cache</td>
<td>S26361-F5228-E100</td>
</tr>
<tr>
<td>1TB 7.2krpm, &lt;9,5ms, 64MB Cache</td>
<td>S26361-F5228-E100</td>
</tr>
</tbody>
</table>

### SATA Disk Drive 2.5”

**HDD SATA 6Gb/s 2.5” with hot plug/hot replace tray**

| max. 8/12/16x per system |

<table>
<thead>
<tr>
<th>HDD SATA 6Gb/s 2.5” with hot plug/hot replace tray</th>
<th>max. 8/12/16x per system</th>
</tr>
</thead>
<tbody>
<tr>
<td>250GB 7.2krpm, &lt;9,5ms, 64MB Cache</td>
<td>S26361-F3708-E250</td>
</tr>
<tr>
<td>500GB 7.2krpm, &lt;9,5ms, 64MB Cache</td>
<td>S26361-F3708-E500</td>
</tr>
<tr>
<td>1TB 7.2krpm, &lt;9,5ms, 64MB Cache</td>
<td>S26361-F3708-E100</td>
</tr>
</tbody>
</table>

### PCIe SSD (occupies one PCIe slot)

<table>
<thead>
<tr>
<th>PCIe SSD 365GB MLC</th>
<th>PCIe SSD 785GB MLC</th>
<th>PCIe SSD 1,2TB MLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe SSD 365GB</td>
<td>PCIe SSD 785GB</td>
<td>PCIe SSD 1,2TB</td>
</tr>
<tr>
<td>PCIe 2</td>
<td>PCIe 2</td>
<td>PCIe 2</td>
</tr>
<tr>
<td>25mm Lithography</td>
<td>25mm Lithography</td>
<td>25mm Lithography</td>
</tr>
<tr>
<td>PCIe x4, Low Profile</td>
<td>PCIe x4, Low Profile</td>
<td>PCIe x4, Low Profile</td>
</tr>
</tbody>
</table>

*Special Release* **loose delivery: S26361-F4522-L351/L781/L121**

**PCIe SSD 365GB MLC**

<table>
<thead>
<tr>
<th>PCIe SSD 365GB MLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe SSD 365GB MLC</td>
</tr>
</tbody>
</table>

**PCIe SSD 785GB MLC**

<table>
<thead>
<tr>
<th>PCIe SSD 785GB MLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe SSD 785GB MLC</td>
</tr>
</tbody>
</table>

**PCIe SSD 1,2TB MLC**

<table>
<thead>
<tr>
<th>PCIe SSD 1,2TB MLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe SSD 1,2TB MLC</td>
</tr>
</tbody>
</table>

**PCIe 2**

<table>
<thead>
<tr>
<th>PCIe 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe 2</td>
</tr>
</tbody>
</table>

**25mm Lithography**

<table>
<thead>
<tr>
<th>25mm Lithography</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm Lithography</td>
</tr>
</tbody>
</table>

**PCIe x4, Low Profile**

<table>
<thead>
<tr>
<th>PCIe x4, Low Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCIe x4, Low Profile</td>
</tr>
</tbody>
</table>

**loose delivery: S26361-F4522-L351/L781/L121**
## Section VII: Modular Raid 0/1, Raid5 for SAS or SATA HD’s. On-board Controller for max. 4x 2.5” SATA or SAS HD’s

### On-board SATA Controller with 3 Gb/sec and up to 4x 2.5” SATA HDDs (no additional controller required)

For up to 4x 2.5” SAS HDs with RAID 0/1 functionality a Patsburg Upgrade Kit is required.

For all other HDD configurations a modular RAID-controller is required.

Following optional onboard SAS RAID can be selected for 4x2.5” HDDs or one SAS Tape device:

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3674-E1</td>
<td>Onboard 4 port SAS Controller</td>
</tr>
<tr>
<td>LSI</td>
<td>Patsburg B</td>
</tr>
<tr>
<td>RAID 0, 1 &amp; 10</td>
<td>no controller cache</td>
</tr>
<tr>
<td>SAS 1.0 (3Gb/sec)</td>
<td>4 internal ports</td>
</tr>
<tr>
<td>PCIe x4</td>
<td>no PCI slot required</td>
</tr>
<tr>
<td>max. 1x per system</td>
<td></td>
</tr>
</tbody>
</table>

### For more than 4 hard disks or 6 Gb/sec one of the following modular RAID-controllers is required:

#### Modular Raid 0/1 controller with IME support for SAS/SATA

- This RAID controller supports max. 8 HDDs on internal SAS ports.

#### Modular Raid 5 controller for SAS/SATA

- RAID levels 0, 1, 5, 6, 10, and 50 are supported.
- This RAID controller supports max. 16 HDDs combined with internal SAS expander.

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3554-E5</td>
<td>RAID Ctrl SAS 6G 8port internal</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>no Cache, no BBU</td>
</tr>
<tr>
<td>RAID 0, 1 &amp; 10</td>
<td>Support for 3Gb/s and 6Gb/s</td>
</tr>
<tr>
<td>SATA and SAS hard drives</td>
<td>PCIe x8</td>
</tr>
<tr>
<td>Low-profile MD2 form factor</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

**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.**

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3554-E12</td>
<td>RAID Ctrl SAS 6G 8port internal</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>Support for 3Gb/s and 6Gb/s</td>
</tr>
<tr>
<td>RAID 0, 1, 5, 6, 10, 10, 50, 60</td>
<td>Support for 3Gb/s and 6Gb/s</td>
</tr>
<tr>
<td>SATA and SAS hard drives</td>
<td>PCIe x8</td>
</tr>
<tr>
<td>Low-profile MD2 form factor</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-E100</td>
<td>RAID 0/1 controller option</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>RAID 0, 1, 5, 6, 10, 10, 50, 60</td>
</tr>
<tr>
<td>Support for 3Gb/s and 6Gb/s</td>
<td>PCIe x8</td>
</tr>
<tr>
<td>Low-profile MD2 form factor</td>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

**1x lose delivery options**

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-L660</td>
<td>RAID Advanced Software Options</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>License Activation Key for CacheCade 2.0 and FastPath</td>
</tr>
<tr>
<td>RAID Ctrl S26361-F3669-xx</td>
<td>max. 1x per Controller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-L100</td>
<td>TFM Module for FBU option</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>max. 1x per Controller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-L110</td>
<td>Flash Backup Unit</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>with 25cm, 55cm, 70cm cable set</td>
</tr>
<tr>
<td>RAID Ctrl S26361-F3669-xx</td>
<td>max. 1x per Controller</td>
</tr>
</tbody>
</table>

**License Options**

<table>
<thead>
<tr>
<th>Model</th>
<th>Configuration Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-E125</td>
<td>TFM Module for FBU option</td>
</tr>
<tr>
<td>LSI MegaRAID</td>
<td>max. 1x per Controller</td>
</tr>
</tbody>
</table>

---

**Fujitsu PRIMERGY Server**
System configurator and order-information guide
PRIMERGY RX300 S8      Status 2014-09-30

### SAS controller for external backup drives or JBOD subsystems (as soon as available)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3628-E201</td>
<td>SAS Controller 6Gb/s 8 port LP LSI SAS9200-8e LP PCIe 2.0 x4, ext: 8 port</td>
<td>max. 3x/2x per system</td>
</tr>
</tbody>
</table>

- A combination of Emulex and Qlogic FC / FCoE controller is not supported

### Fibre Channel Controller for external storage systems

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3631-E201</td>
<td>8GBit/s FC Controller QLogic QLE2560, low profile bracket 1 channel 8GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe2 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
<tr>
<td>S26361-F3631-E202</td>
<td>8GBit/s FC Controller QLogic QLE2562, low profile bracket 2 channel 8GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe2 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
</tbody>
</table>

- For Fibre Channel SAN also other components like switches, SFPs and optical wires are orderable (for details see price list)

### 16GBit/s FC Controller

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3961-E201</td>
<td>8GBit/s FC Controller Emulex LPe1250, low profile bracket 1 channel 8GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe2 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
<tr>
<td>S26361-F3961-E202</td>
<td>8GBit/s FC Controller Emulex LPe12002, low profile bracket 2 channel 8GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe2 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
</tbody>
</table>

- FH bracket is not included

### 16GBit/s FC Controller

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F4994-E201</td>
<td>16GBit/s FC Controller Emulex LPe16000, low profile bracket 1 channel 16GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe3 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
<tr>
<td>S26361-F4994-E202</td>
<td>16GBit/s FC Controller Emulex LPe16002, low profile bracket 2 channel 16GBit/sec FC Contr. LC Interface for 50µm Fiber PCIe3 x8, 170mm</td>
<td>max. 6x per system</td>
</tr>
</tbody>
</table>

- FH bracket is not included

### 16GBit/s FC Controller

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3628-E201</td>
<td>SAS Controller 6Gb/s 8 port LP LSI SAS9200-8e LP PCIe 2.0 x4, ext: 8 port</td>
<td>max. 3x/2x per system</td>
</tr>
</tbody>
</table>

- A combination of Emulex and Qlogic FC / FCoE controller is not supported

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

- Fujitsu PRIMERGY Server 21 of 30
## SAS RAID controller for JBOD subsystems

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3713-E203</td>
<td>RAID Ctrl SAS 6G 8port external</td>
</tr>
<tr>
<td></td>
<td>LSI MegaRAID SAS 9266CV-8e 1GB Cache with ECC</td>
</tr>
<tr>
<td></td>
<td>RAID 0, 1, 5, 6, 10, 50 &amp; 60 without FBU</td>
</tr>
<tr>
<td></td>
<td>SAS 6Gb/sec 8 port external</td>
</tr>
<tr>
<td></td>
<td>PCIe x8, MD2 form factor</td>
</tr>
<tr>
<td></td>
<td>low profile bracket</td>
</tr>
<tr>
<td></td>
<td>max. 4x per system</td>
</tr>
</tbody>
</table>

### Lose delivery options

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-L110</td>
<td>Flash Backup Unit with 25, 55, 70 cable set max. 1x per Controller</td>
</tr>
<tr>
<td>S26361-F3669-L661</td>
<td>RAID Advanced Software Options License Activation Key for CacheCade 2.0 and FastPath for 1 RAID Ctrl S26361-F3713-xxx</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F3669-E125</td>
<td>Flash Backup Unit with 25cm cable set max. 1x per Controller</td>
</tr>
<tr>
<td>S26361-F3669-E661</td>
<td>RAID Advanced Software Options License Activation Key for CacheCade 2.0 and FastPath for 1 Controller</td>
</tr>
</tbody>
</table>
**Raid Controller and Devices for SAS3.0 (12 Gb/sec)**

- Modular Raid 5 controller for SAS 12Gb/s. RAID levels 0, 1, 10, 5, 50, 6 and 60 are supported.
- This RAID controller supports max. 9 HDDs or SSDs.
- A 12Gb/s SAS expander is not available!

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.

**Note: This option is possible for:**

- **Config 10**: 4x SAS2.0 + 8x SAS3.0
- **Config 12**: 3.5” drive + 8x SAS3.0
- **Config 15**: LTO + 8x SAS3.0

**Controller supports OOB-RAID including OOB-HDD monitoring**

- PRAID EP400i
- PRAID EP420i
- no OOB-HDD cable needed

Based on chip LSISAS3108

- LSi MegaRAID

RAID 0, 1, 10, 5, 50, 6, 60

optional FBU

Support for 3Gb/s, 6Gb/s and 12Gb/s SATA and SAS hard drives

PCle 3.0 x8

Low / High profile ex factory

max. 1x per system

**S loose delivery: S26361-F5243 L1 / L2**

**S loose delivery TFM option**

- S26361-F5243-E100 for EP400i
  - TFM Module for FBU option (flash and FBU control logic)
  - max. 1x per Controller

- S26361-F5243-E300 for EP420i
  - TFM Module for FBU option (flash and FBU control logic)
  - max. 1x per Controller

- S26361-F5243-E125
  - Flash Backup Unit
  - with 25cm cable set
  - max. 1x per Controller

- S26361-F5243-E660
  - RAID Advanced Software Options
  - License Activation Key
  - for CacheCade 2.0 and FastPath
  - for 1 Controller

**Advanced Software Option**

- S26361-F5243-L100 / L300
  - TFM Module for FBU option (flash and FBU control logic)
  - max. 1x per Controller

- S26361-F5243-L110
  - Flash Backup Unit
  - with 25cm, 55cm, 70cm cable set
  - max. 1x per Controller

- S26361-F5243-L660
  - RAID Advanced Software Options
  - License Activation Key
  - for CacheCade 2.0 and FastPath
  - for 1 Controller
## Communication / Network

2x Gigabit (Dualport) Ethernet Contr.

### Modular On-Board LAN

- **2x Gigabit (Dualport) Ethernet Contr.**
- **Intel LAN I350 (Powerville)**
- **5 different Upgrade-Kits are offered, which occupies a dedicated PCIe slot and can be ordered once per system.**
- If a 1Gb modular LAN Controller is installed, 3 additional 1Gb LAN controllers are possible!
- If a 10Gb modular LAN Controller is installed, 2 additional 10Gb LAN controllers is possible!

<table>
<thead>
<tr>
<th>Upgrade Kit</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F4610-E802</td>
<td>Upgrade Kit to 4x 1Gb LAN on-board LP</td>
<td>4x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>S26361-F4610-E804</td>
<td>Upgrade Kit to 6x 1Gb LAN on-board LP</td>
<td>6x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>S26361-F3629-E702</td>
<td>Upgrade Kit to 2x 1Gb LAN Contr.</td>
<td>2x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>S26361-F3629-E704</td>
<td>Upgrade Kit to 6x 1Gb LAN Contr.</td>
<td>6x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>PLAN CP 2x1Gbit Cu Intel I350-T2 LP</td>
<td>Intel Powerville based 2 port Server Ad.</td>
<td>2x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>PLAN CP 4x1Gbit Cu Intel I350-T4 LP</td>
<td>Intel Powerville based 4 port Server Ad.</td>
<td>4x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
<tr>
<td>PCIe x4, Low Profile</td>
<td>ext: for RJ45-plug, Cat 5</td>
<td>max. 1x per system</td>
<td>1Gbit/s Modular On-Board LAN Adapter</td>
</tr>
</tbody>
</table>

### Ethernet Adapter

- **1Gb Ethernet Controller Dual 1000TX LP**
- **Gigabit Ethernet Controller Quad 1000TX LP**
- **Gigabit Ethernet Controller 1000TX LP**
- **Intel® Gigabit CT Desktop Adapter**
- **PCIe x4, Low Profile**
- **low profile (LP) bracket**
- **max. 4x per system**

<table>
<thead>
<tr>
<th>Upgrade Kit</th>
<th>Description</th>
<th>Quantity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F4610-E202</td>
<td>Gbit Ethernet Controller Dual 1000TX LP</td>
<td>2x per system</td>
<td>1Gb Ethernet Adapter</td>
</tr>
<tr>
<td>S26361-F4610-E204</td>
<td>Gbit Ethernet Controller Quad 1000TX LP</td>
<td>4x per system</td>
<td>1Gb Ethernet Adapter</td>
</tr>
<tr>
<td>S26361-F3516-E201</td>
<td>Gbit Ethernet Controller 1000TX LP</td>
<td>1x per system</td>
<td>1Gb Ethernet Adapter</td>
</tr>
<tr>
<td>S26361-F3516-E204</td>
<td>Gbit Ethernet Controller 1000TX LP</td>
<td>4x per system</td>
<td>1Gb Ethernet Adapter</td>
</tr>
<tr>
<td>PCIe x4, Low Profile</td>
<td>ext: for RJ45-plug, Cat 5</td>
<td>max. 4x per system</td>
<td>1Gb Ethernet Adapter</td>
</tr>
</tbody>
</table>

### Loose Delivery

- **Fujitsu PRIMERGY Server**
- **Loose delivery with FH and LP bracket:**
  - I350-T2
  - I350-T4
  - S26361-F4610-L502
  - S26361-F3516-L504

- **Loose delivery with LP bracket:**
  - Shelter Island
  - Sheephead Bay
  - S26361-F3516-L201
  - S26361-F3242-L201
If a 10Gb modular LAN Controller is installed, 1 additional 10Gb LAN controllers is possible!

- **10GbE 2-Port SFP+ for MMF Module**
  - 10Gbit/s Ethernet Adapter
  - S26361-F3629-E702
  - S26361-F3629-E202
  - S26361-F3752-E202
    - (Intel X540-T2)
    - Eht Ctrl 2x10Gbit PCIe x8 D2755 SFP+
  - Intel Niantic based dual port 10Gb NIC
  - PCIe x8, Low Profile, Low Profile Bracket
  - max. 1x per system

- **Upgrade-Kit to 2xGbit+2x10Gbit LOM**
  - 10 Gigabit Ethernet Contr. dual port SFP+
  - Eth Ctrl 2x10Gbit PCIe x8 D2755 SFP+
  - Intel Niantic based dual port 10Gb NIC
  - PCIe x8, Low Profile, Low Profile Bracket
  - max. 2x per system

**Shared 10Gb Management LAN**

Install and configure Management LAN on 10Gb Shared LAN port

The SFP+ modules are also available as loose delivery
S26361-F3986-E3
S26361-F3986-E4

Instead SFP+ Modules, SFP+ twinax cables from the switch vendors may be used
S26361-F3989-E600
S26361-F3873-E500
S26361-F4571-E500

Separate orderable 10Gb Ethernet cables
S26361-F3989-L102
S26361-F3989-L105
S26361-F3989-L110
S26361-F3989-L101
S26361-F3989-L103
S26361-F3989-L105
S26361-F3989-L107
S26361-F4571-L101
S26361-F4571-L103
S26361-F4571-L105
S26361-F4571-L107
S26361-F4571-L110

Loose delivery options (FH and LP bracket included)
D2755 S26361-F3629-L502
X540-T2 S26361-F3752-L502

**SFP+ Module MMF 10GbE LC**

SFP+ module for 10 Gbit
max. 2x per controller

**SFP+ Module SMF 10GbE LC**

SFP+ module for 10 Gbit
max. 2x per controller

**Ethernet 50µm FO cabling**

max. 2x per controller

**Ethernet 9µm FO cabling**

max. 2x per controller

**SFP+ active twinax cable**

Fujitsu branded cable
max. 2x per controller

Brocade branded cable
max. 2x per controller

Cisco branded cable
max. 2x per controller

Separate orderable 10Gb Ethernet cables
S26361-F3989-L102
S26361-F3989-L105
S26361-F3989-L110
S26361-F3989-L101
S26361-F3989-L103
S26361-F3989-L105
S26361-F3989-L107
S26361-F4571-L101
S26361-F4571-L103
S26361-F4571-L105
S26361-F4571-L107
S26361-F4571-L110

Loose delivery options (FH and LP bracket included)
D2755 S26361-F3629-L502
X540-T2 S26361-F3752-L502

**SFP+ active Twinax Cable Fujitsu 2m**

SFP+ active Twinax Cable Fujitsu 2m
max. 2x per controller

**SFP+ active Twinax Cable Fujitsu 5m**

SFP+ active Twinax Cable Fujitsu 5m
max. 2x per controller

**SFP+ active Twinax Cable Fujitsu 10m**

SFP+ active Twinax Cable Fujitsu 10m
max. 2x per controller

**SFP+ passive Twinax Cable Brocade 1m**

SFP+ passive Twinax Cable Brocade 1m
max. 2x per controller

**SFP+ passive Twinax Cable Brocade 3m**

SFP+ passive Twinax Cable Brocade 3m
max. 2x per controller

**SFP+ passive Twinax Cable Brocade 5m**

SFP+ passive Twinax Cable Brocade 5m
max. 2x per controller

**SFP+ active Twinax Cable Cisco 1m**

SFP+ active Twinax Cable Cisco 1m
max. 2x per controller

**SFP+ active Twinax Cable Cisco 3m**

SFP+ active Twinax Cable Cisco 3m
max. 2x per controller

**SFP+ active Twinax Cable Cisco 5m**

SFP+ active Twinax Cable Cisco 5m
max. 2x per controller

**SFP+ active Twinax Cable Cisco 7m**

SFP+ active Twinax Cable Cisco 7m
max. 2x per controller

**SFP+ active Twinax Cable Cisco 10m**

SFP+ active Twinax Cable Cisco 10m
max. 2x per controller
G) Fibre Channel over Ethernet

- **S26361-F3592-E202**
  - 10Gb/s CNA
  - Emulex
  - OCe10102
  - 2 channel 10Gb/s CNA
  - SFP+ Cage
  - PCIe x8, 170mm
  - max. 4 per system

- **S26361-F3592-E108**
  - SFP+ module for 10 Gbit
  - Ethernet FO cabling
  - ext:LC-connector
  - max. 2x per adapter

- **S26361-F3592-E201**
  - 10Gb/s CNA
  - Emulex
  - OCe14102
  - 2 channel 10Gb/s CNA
  - SFP+ Cage
  - PCIe x8, 170mm
  - max. 4 per system

- **S26361-F3592-E110**
  - SFP+ module for 10 Gbit
  - Ethernet FO cabling
  - ext:LC-connector
  - max. 2x per adapter

- **S26361-F3592-E110**
  - SFP+ module for 10 Gbit
  - Ethernet FO cabling
  - ext:LC-connector
  - max. 2x per adapter

- **S26361-F5250-E201**
  - 10Gb/s CNA
  - Emulex
  - OCe10102
  - 2 channel 10Gb/s CNA
  - SFP+ Cage
  - PCIe x8, 170mm
  - max. 4 per system

- **S26361-F5250-E110**
  - SFP+ module for 10 Gbit
  - Ethernet FO cabling
  - ext:LC-connector
  - max. 2x per adapter

H) InfiniBand HCA's

- **S26361-F4475-E122/E222**
  - PBI EP OCe3400/420
  - Intel Bi HCA 1x / 2x 40Gb
  - PCIe 2.0 (5.0GT/s)
  - PCIe x8, low profile
  - ext: 1x / 2x QSFP-connector
  - max. 2x per system

- **S26361-F4475-E103/E203**
  - B HCA 40Gb
  - 1 and 2 port QDR enhanced
  - PCIe x8, low profile
  - ext: 1x / 2x QSFP-connector
  - max. 2x per system

- **S26361-F4533-E102/E202**
  - B HCA 56Gb 1 and 2 port FDR
  - PCIe x8, low profile
  - ext: 1x / 2x QSFP-connector
  - max. 2x per system

- **S26361-F3996-L203, QSFP, 40Gb, 3m**
- **S26361-F3996-L210, QSFP, 40Gb, 10m**
- **S26361-F3996-L561, QSFP, 56Gb, 1m**
- **S26361-F3996-L563, QSFP, 56Gb, 3m**

- **loose delivery: S26361-F4475-L122/L222**
- **loose delivery: S26361-F4475-L103/L203**
- **loose delivery: S26361-F4533-L102/L202**

- For the US market only: Due to EMI restrictions, only one IB FDR HCA might be installed per system

- For the US market only: If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly

- Copper cable are also available for loose delivery as S26361-F3996-L651, QSFP, 56Gb, 1m
- S26361-F3996-L653, QSFP, 56Gb, 3m
Section XI  System Management Products (RemoteView)

**iRMC S4 (integrated Remote Management Controller) onboard server management**

Controller with dedicated 10/100/1000 Service LAN port and integrated graphics.

**S26361-F1790-E243**

iRMC S4 advanced pack

- integrated remote management controller activation key for graphical console redirection and remote media redirection
- 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

Available April 2014

This option enables the out-of-band monitoring function of the HDD by iRMC.

In this case HDD will be monitored without any Server Management agents.

Note: This option is possible for S26361-K1457-V401 only!

**S26361-F3571-E27**

Maintenance LAN

Front management LAN Port

In combination with iRMC adv. pack

For local maintenance / console redirection, integrated in front (operating panel)

max. 1x per system

Section XII  Miscellaneous

**Options and other peripherals**

For other options, refer to SystemArchitect and Pricelist

These options are supplied lose with the shipment

For suitable peripherals for this product, please refer to SystemArchitect

**S26361-F3776-E101**

Cool-safe® Advanced Thermal Design

Restricts configuration to make 5-40° possible

Feature is enabled and fixed ex factory

max. 1x per system

**Cool-safe ATD configuration restrictions for RX300S8:**

- related L-numbers as well restricted
- no BBU
- no tape drives
- no PCIe SSDs

- no 130W CPUs
- no 32GB LRDIMM @ 1866 MHz

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xeon E5-2690v2 10C/20T 3.00GHz 25MB 8.00GT/s 1866MHz 130W</td>
<td>S26361-F3790-E300</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2637v2 4C/8T 3.50GHz 15MB 8.00GT/s 1866MHz 130W</td>
<td>S26361-F3791-E350</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2643v2 6C/12T 3.50GHz 25MB 8.00GT/s 1866MHz 130W</td>
<td>S26361-F3791-E330</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2667v2 8C/16T 3.30GHz 25MB 8.00GT/s 1866MHz 130W</td>
<td>S26361-F3791-E300</td>
<td></td>
</tr>
<tr>
<td>Xeon E5-2697v2 12C/24T 2.70GHz 30MB 8.00GT/s 1866MHz 130W</td>
<td>S26361-F3791-E270</td>
<td></td>
</tr>
</tbody>
</table>

- PCIe-SSD 365GB MLC | S26361-F4522-E351 |
| PCIe-SSD 758GB MLC | S26361-F4522-E781 |
| PCIe-SSD 1,2TB MLC | S26361-F4522-E121 |

- 12GB (1x32GB) 4044 DDR3-1866 LR ECC | S26361-F3648-E517 |
### Section XIII: Country specific power cord

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Region</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S26361-F1452-E100</td>
<td>For Shipments to Asia pacific, EMEA or India regions</td>
<td>APAC/EMEA/India</td>
<td>1x per system</td>
</tr>
<tr>
<td>S26361-F1452-E110</td>
<td>For Shipments to Japan regions</td>
<td>JP</td>
<td>1x per system</td>
</tr>
<tr>
<td>S26361-F1452-E130</td>
<td>For Shipments to America</td>
<td>America</td>
<td>1x per system</td>
</tr>
</tbody>
</table>

**Certification for India**

- S26361-F3301-E123

*Hint: No country specific powercord configurable with Certification for India and China (CCC)*

**Power cord options (1x per PSU)**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Applies to</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>T26139-Y1968-E100</td>
<td>Power cord for rack, 4m, grey, IEC 320 C14 connector</td>
<td>Max. 2 x</td>
<td>Option &quot;no powercord&quot; for Countries without specific cable orderable like e.g. China</td>
</tr>
<tr>
<td>T26139-Y1742-E10</td>
<td>USA, Canada, 1.8m, grey</td>
<td>USA, Canada</td>
<td></td>
</tr>
<tr>
<td>T26139-Y4024-E10</td>
<td>for -48V DC PSU only, 4m, black</td>
<td>USA, Canada</td>
<td></td>
</tr>
</tbody>
</table>

*For shipments to India mandatory!*
<table>
<thead>
<tr>
<th>CCC Certification for China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limits configuration in accordance with CCC exclusions</td>
</tr>
<tr>
<td>max. 1x per system</td>
</tr>
</tbody>
</table>

The following order components out of the specific sections are NOT allowed together with CCC Certification for China:

- Front-VGA Interface S26361-F2571-E26
- PCIe-SSD 365GB MLC S26361-F4522-E351
- PCIe-SSD 785GB MLC S26361-F4522-E781
- PCIe-SSD 1.2TB MLC S26361-F4522-E121
- SAS Ctrl 6G 8ext PCIe lp S26361-F3628-E201
- Shared 10Gb Management LAN Kit S26361-F3629-E750
- Modulare SV 800W titanium hp S26113-F615-E10
- Modulare SV DC -48V 800W gold hp S26113-F609-E10
- Cable powercord rack, 4m, grey T26139-Y1968-E100
- Ltg Netzanschluss -48V DC, 4m, schwarz T26139-Y4024-E10
- Leitung Netzanschluss (USA), 1,8m, grau T26139-Y1742-E10
- TPM Modul S26361-F3552-E1
## Change Report

<table>
<thead>
<tr>
<th>Date</th>
<th>Order number</th>
<th>Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-08-04</td>
<td>S26361-F5313-xxx</td>
<td>16Gb Qlogic added</td>
</tr>
<tr>
<td>2014-07-02</td>
<td>S26361-F5315-E*</td>
<td>Added 3.5&quot; SAS 12G SSDs</td>
</tr>
<tr>
<td>2014-07-02</td>
<td>S26361-F3848-E517</td>
<td>No ATD functionality with 32GB LRDIMM @ 1866 MHz</td>
</tr>
<tr>
<td>2014-06-30</td>
<td>S26361-F3301-E123</td>
<td>Added certification for India</td>
</tr>
<tr>
<td>2014-06-16</td>
<td>S26361-F3740-xxx</td>
<td>EOL</td>
</tr>
<tr>
<td>2014-06-16</td>
<td>S26361-F3739-xxx</td>
<td>EOL</td>
</tr>
<tr>
<td>2014-06-16</td>
<td>S26361-F3242-E201</td>
<td>EOL</td>
</tr>
<tr>
<td>2014-06-16</td>
<td>S26361-F3739-xxx</td>
<td>EOL</td>
</tr>
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<td>2014-06-16</td>
<td>S26361-F3242-E201</td>
<td>EOL</td>
</tr>
<tr>
<td>2014-06-10</td>
<td>S26361-F5319-E*</td>
<td>Added 3.5&quot; SATA 6G SSDs</td>
</tr>
<tr>
<td>2014-05-19</td>
<td>S26361-F3848-E517</td>
<td>Added 32 GB LRDIMM 1866 MHz</td>
</tr>
<tr>
<td>2014-05-06</td>
<td>S26361-F3295</td>
<td>new CNA OCe14102 added</td>
</tr>
<tr>
<td>2014-05-02</td>
<td></td>
<td>PCIe SSD SFF options removed</td>
</tr>
<tr>
<td>2014-04-03</td>
<td>S26361-F3776-E101</td>
<td>Cool-safe ATD restriction changed - 32GB and 64GB LRDIMM no more restricted</td>
</tr>
<tr>
<td>2014-03-18</td>
<td></td>
<td>SAS3.0 RAID Ctrl updated</td>
</tr>
<tr>
<td>2014-03-17</td>
<td>S26361-F3739-E201</td>
<td>phase out</td>
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<tr>
<td>2014-03-17</td>
<td>S26361-F3740-E201</td>
<td>phase out</td>
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<tr>
<td>2014-03-17</td>
<td>S26361-F3610-E202</td>
<td>EOL</td>
</tr>
<tr>
<td>2014-03-05</td>
<td>S26361-F1373-E540</td>
<td>HDD&amp;RAID OOB monitoring by iRMC added</td>
</tr>
<tr>
<td>2014-01-30</td>
<td>S26361-F5303-*</td>
<td>New SATA SSDs added.</td>
</tr>
<tr>
<td>2014-01-30</td>
<td>S26361-F5297-*</td>
<td>New SAS 12G SSDs added.</td>
</tr>
<tr>
<td>2013-11-29</td>
<td>S26361-F3837-L64</td>
<td>SATA DOM (Disk on module) added</td>
</tr>
<tr>
<td>2013-11-27</td>
<td>S26361-F3301-E120</td>
<td>Restrictions CCC Certification for China updated</td>
</tr>
<tr>
<td>2013-10-28</td>
<td></td>
<td>SSD support with On-Board controller.</td>
</tr>
<tr>
<td>2013-10-28</td>
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<td>restriction for 2.5&quot; BC-SAS HDD with &quot;F3554-E8&quot; removed.</td>
</tr>
<tr>
<td>2013-10-09</td>
<td>S26361-F4610-E202</td>
<td>added new 1Gb NICs from Intel</td>
</tr>
<tr>
<td>2013-10-08</td>
<td>S26113-F615-E10</td>
<td>add comment &quot;110V range not supported&quot;</td>
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<tr>
<td>2013-09-19</td>
<td></td>
<td>restrictions for Cool-safe ATD added</td>
</tr>
<tr>
<td>2013-09-13</td>
<td></td>
<td>Memory hint on CPU page extended</td>
</tr>
<tr>
<td>2013-09-03</td>
<td>RMK</td>
<td>HDD 1.2TB SAS 10K added</td>
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<tr>
<td>2013-09-01</td>
<td></td>
<td>CMA not longer a must component</td>
</tr>
<tr>
<td></td>
<td></td>
<td>First Release</td>
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