Front View

- 5 inch Bay
- CD-ROM Drive
- Floppy Disk Drive

Back View

- Mouse
- Keyboard
- Serial Port
- Display
- 10/100BASE-TX Connector (for Remote Management Controller)
- 10/100/1000BASE-T Connector
- Parallel Port (optional)
- PCI Slot

In case that Power Supply Conversion kit (PGBRSU104) is applied.

Inside View

- Power Supply
- DIMM Slot
- CPU
- 5 inch Bay
- Hard Disk Bay
- System Fan
- PCI Slot
This document contains basic product and configuration information that will enable you to configure your system.

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 servers in order to meet your specific requirements.

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.

The color of the junction means as follows.

<table>
<thead>
<tr>
<th>Key to</th>
<th>Or</th>
<th>And</th>
</tr>
</thead>
</table>
### Data Sheet

#### TX200 S3

<table>
<thead>
<tr>
<th>Type</th>
<th>Dual-Processor Tower Server</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Unit</strong></td>
<td>Xeon®5110 (1.60GHz)</td>
</tr>
<tr>
<td><strong>CPU</strong></td>
<td>Quad-Core Intel® Xeon® X3355 (2.66GHz) / 4GB DDR2-SDRAM full fed DIMM x 2 (PBGFSU104)</td>
</tr>
<tr>
<td><strong>Frequencies</strong></td>
<td>Dual-Core Intel® Xeon® 5160 (3GHz) / 8GB DDR2-SDRAM full fed DIMM x 2 (PBGFSU104)</td>
</tr>
<tr>
<td><strong>Second-Level-Cache</strong></td>
<td>2x4MB (Quad-Core Intel® Xeon® X3355 (2.66GHz) / Dual-Core Intel® Xeon® 5160 (3GHz) )</td>
</tr>
<tr>
<td><strong>Multi-Processor</strong></td>
<td>1 (max. 2)</td>
</tr>
<tr>
<td><strong>Front-Side-Bus</strong></td>
<td>133MHz (Quad-Core Intel® Xeon® X3355 (2.66GHz) / Dual-Core Intel® Xeon® 5160 (3GHz) ) /</td>
</tr>
<tr>
<td></td>
<td>1066MHz (Quad-Core Intel® Xeon® X3310 (1.60GHz) / Dual-Core Intel® Xeon® 5110 (1.60GHz) )</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>Intel® 5000V</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>1GB (512MB ECC DDR2-SDRAM full fed DIMM x 2, PC2 5300F (SDDC/Single Device Data Correction) supported)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Graphics Controller</strong></td>
<td>incl. Remote Management Controller, VRAM: 1.7MB</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
<td>640x480 dot</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>600x600 dot</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>1024x768 dot</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>1280x1024 dot</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>Temperature 10-35°C / Humidity 50/60Hz</td>
</tr>
<tr>
<td><strong>HDD</strong></td>
<td>Number of bays: 6 / (8 by applying Internal HDD Unit Bay Conversion kit (PG-BC103)) (Hot plug)</td>
</tr>
<tr>
<td></td>
<td>Available HDD: 3 / 3.5 inch</td>
</tr>
<tr>
<td></td>
<td>160GB (PG-HD835A) 15krpm, SAS</td>
</tr>
<tr>
<td><strong>RAID Controller</strong></td>
<td>standard (Max. 2 ATAPI)</td>
</tr>
<tr>
<td><strong>SAS Controller</strong></td>
<td>SAS x 8 ports (Installed as standard) (with RAID1 function)</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>Display (Analog RGB), Serial Port x 2 (D-SUB 5pins), Parallel Port (optional, D-SUB 25pins)</td>
</tr>
<tr>
<td></td>
<td>System board, Remote Management Controler</td>
</tr>
<tr>
<td><strong>Server Management Software</strong></td>
<td>Standard (onboard, Remote Management Controller)</td>
</tr>
<tr>
<td><strong>Network Controller (onboard)</strong></td>
<td>1 port (100BASE-TX/10BASE-T)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC 100-127V (50/60Hz) / AC 200-240V (50/60Hz) x 1</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>(AC 105-127V (50/60Hz) / AC 210-240V (50/60Hz) x 2 when Power Supply Conversion kit (PGBRSU104) is applied)</td>
</tr>
<tr>
<td><strong>Redundant Power Supply</strong></td>
<td>575W / 2070W (Max.)</td>
</tr>
<tr>
<td><strong>Redundant Fan</strong></td>
<td>optional (hot plug when Power Supply Conversion kit (PGBRSU104) is applied)</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>Tower: 174 (288 incl. protruding parts) x 756 x 700 (D x H)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Tower: 38kg (Max.) / Rackmount: 40kg (Max.)</td>
</tr>
<tr>
<td><strong>Environmental Conditions</strong></td>
<td>Temperature 5°C to 35°C, Humidity 20 to 80%, Nocondensation</td>
</tr>
</tbody>
</table>

**Note:**
1. Available memory capacity will be changed by the type of OS. Please find more details in Note2[Memory] OS Compatibility List.
2. Resolution is determined by functions of the display monitor and OS.
3. HDD capacity is calculated according to the formulas 1GB=1000 “byte” and 1TB=1000 “byte”.
4. Frequency will be changed by the spec of PCI card and number of cards mounted.
5. Drivers for Linux are not attached. Please download and use drivers of the following URLs.


6. CPU Conversion kit: Xeon®5110 (1.60GHz/4MB) -> Xeon®5110 (1.60GHz/4MB)
7. CPU Conversion kit: Xeon®5110 (1.60GHz/4MB) -> Xeon®5110 (1.60GHz/4MB)
8. CPU Conversion kit: Xeon®5110 (1.60GHz/4MB) -> Xeon®5110 (1.60GHz/4MB)
9. CPU Conversion kit: Xeon®5110 (1.60GHz/4MB) -> Xeon®5110 (1.60GHz/4MB)
10. In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.
11. There are some notes for Windows 2003 SP2. Please refer to Notes of Support Matrix.

**Attached tool:
ServerStart (Server Setup tool)**

*Notes 1, 2, 3, 4, 5, 10, 11, 12, 13, 14, 15 are applied.

**Note:**
Noise level is 37dB. (Noise level is 47dB when Power Supply Conversion kit (PGBRSU104) is applied.)
**PRIMERGY TX200 S3**

### Configuration Diagram

**Power Supply Unit**
- 5 inch Bay 1
  - CD-ROM Drive / FDD
- 5 inch Bay 2
  - Internal HDD Unit Bay
- 5 inch Bay 3
  - Internal HDD Unit Bay
- 5 inch Bay 4
  - Internal HDD Unit Bay
- 5 inch Bay 5
  - Internal HDD Unit Bay
- 5 inch Bay 6
  - Internal HDD Unit Bay

**Memory**
- DIMM Slot 2B
- DIMM Slot 1B
- DIMM Slot 2A
- DIMM Slot 1A

**PCI Slots**
- PCIS PCI 32bit/33MHz
- PC1 PCI Express (x4)
- PC2 PCI-X 64bit/100MHz
- PC3 PCI Express (x8)
- PC10 PCI-X 64bit/100MHz

**CPU**
- Xeon® X5355 (2.66GHz)
- X5310 (1.60GHz)
- X5160 (3GHz)
- X5130 (2GHz)
- X5110 (1.60GHz)

**Mountable I/O Options**

<table>
<thead>
<tr>
<th>Mount Priority</th>
<th>Mountable Cards</th>
<th>Bus</th>
<th>PCI Slot</th>
<th>Max No. of Mount</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>SAS Controller (xports)</td>
<td>-</td>
<td>PCIX64bit</td>
<td>#</td>
<td>1</td>
</tr>
<tr>
<td>SAS RAID Ctrl</td>
<td>-</td>
<td>PCIX64bit</td>
<td>-</td>
<td>[1]</td>
<td>-</td>
</tr>
<tr>
<td>SAS RAID Ctrl</td>
<td>-</td>
<td>PCIX64bit</td>
<td>-</td>
<td>[1]</td>
<td>-</td>
</tr>
</tbody>
</table>

| High | Fibre Channel Controller | PCI Express (x4) | - | - | - | [1] | [2] | 2 | PCI Express Card |
| Eth. Ctrl 2 x10gbit PCI-E 1000-BASE-SX | PG-286 | PCI Express (x4) | - | - | - | [1] | [2] | 2 | PCI Express Card |
| Eth. Ctrl 1 x10gbit PCI-E 1000-BASE-SX | PG-288 | PCI Express (x4) | - | - | - | [1] | [2] | 2 | PCI Express Card |

* *n*: Installation Priority
* *#*: standard
* *-*: cannot be installed
* *1*: Frequency will be changed by the spec of PCI card and number of cards mounted.
## CPU Connection Table

### Type | Product ID | Details |
--- | --- | --- |
**CPU Conversion Kit:**
- **Xeon 5110(1.60GHz/4MB)**
  - To **Xeon 5150(2GHz/4MB)**
    - (for CTO)
  - To **Xeon 5130(2GHz/4MB)**
    - (for CTO)  
  - To **Xeon 5160(3GHz/4MB)**
    - (for CTO)
  - To **Xeon 5130(2GHz/4MB)**
    - (for CTO)  
  - To **Xeon 5110(1.60GHz/4MB)**
    - (for CTO)  

### *CPU Conversion Kit (available only as a Configure To Order (CTO) option; no separate shipment is possible)*

- **CPU Conversion Kit:** Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Quad-Core Intel® Xeon® X5355(2.66GHz/2x4MB)
  - (for CTO)
  - (Note: This option can be ordered only as coupled with the base unit. A separate shipment is not possible.)

- **CPU Conversion Kit:** Dual-Core Intel® Xeon® 5110(1.60GHz/4MB) -> Quad-Core Intel® Xeon® E5310(1.60GHz/2x4MB)
  - (for CTO)
  - (Note: This option can be ordered only as coupled with the base unit. A separate shipment is not possible.)

- **CPU Conversion Kit:** Dual-Core Intel® Xeon® X5355(2.66GHz/2x4MB) -> Dual-Core Intel® Xeon® X5160(3GHz/4MB)
  - (Note: This option can be ordered only as coupled with the base unit. A separate shipment is not possible.)

- **CPU Conversion Kit:** Dual-Core Intel® Xeon® X5160(3GHz/4MB) -> Dual-Core Intel® Xeon® X5130(2GHz/4MB)
  - (Note: This option can be ordered only as coupled with the base unit. A separate shipment is not possible.)
Max: 16GB Memory Module-1GB (512MB FB-DIMM x 2)
PG-RM1CE

Standard Memory Module: 1GB (512MB FB-DIMM x 2)

Memory Module-2GB (1GB FB-DIMM x 2)
PG-RM2CE

Memory Module-4GB (2GB FB-DIMM x 2)
PG-RM4CE

Memory Module-8GB (4GB FB-DIMM x 2)
PG-RM8CE

Memory Module Conversion kit (for CTO)

Memory Module Conversion kit-2GB (1GB FB-DIMM x 2)
1GB -> 2GB PGBRU2CE (for CTO)

Memory Module Conversion kit-4GB (2GB FB-DIMM x 2)
1GB -> 4GB PGBRU4CE (for CTO)

* Notes on installing memory
1. Memory is installed by pairs of FB-DIMMs of the same capacity. Installation of one FB-DIMM or a mixed-capacity pair is impossible.
2. The memory capacities of the slots should be in ascending order in the following sequence:
   DIMM slots 1A,1B (Bank 1) -> DIMM slots 2A,2B (Bank 2) -> DIMM slots 3A,3B (Bank 3)

(Available Memory Area)

<table>
<thead>
<tr>
<th>Mounted Memory</th>
<th>Available Memory Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>~3.0GB</td>
<td>Same as the size of mounted memory</td>
</tr>
<tr>
<td>4.0GB</td>
<td>Size of Mounted Memory minus &quot;1.0GB&quot;</td>
</tr>
<tr>
<td>~7.0GB</td>
<td>Same as the size of mounted memory</td>
</tr>
<tr>
<td>8.0GB</td>
<td>Size of Mounted Memory minus &quot;1.0GB&quot;</td>
</tr>
<tr>
<td>~16.0GB</td>
<td>Same as the size of mounted memory</td>
</tr>
</tbody>
</table>

* Sparce Memory function
In the case of using Sparce Memory function, same DIMMs of two or more banks are required to be installed. Available memory capacity is "installed memory" minus "capacity of Sparce Memory (1 Bank)".
If you would like to order internal HDDs and internal backup devices, please order optional cards/cables according to the following table.

<table>
<thead>
<tr>
<th>Connection</th>
<th>Drive Cage</th>
<th>Interface</th>
<th>Internal Backup Devices PRIMERGY TX200 S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS / RAID</td>
<td>Standard Drive Cage (6bays)</td>
<td>SAS Controller (standard) * In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.</td>
<td>Onboard USB (internal port) SCSI Card (PG-1281/PGB1281) SCSI Cable (PG-CBL5025) (*3)</td>
</tr>
<tr>
<td>RAID</td>
<td>When Internal HDD Unit Bay Conversion kit (PG-BC103) is applied. (+2bays)</td>
<td>SAS RAID Ctl (PG-140F/PGB140G) (SAS Controller (standard))</td>
<td>Onboard USB (internal port) SCSI Card (PG-1281/PGB1281) SCSI Cable (PG-CBL5025) (*3)</td>
</tr>
</tbody>
</table>

(*) USB Backup Devices: PG-DT504  
(“2) SCSI Wide Backup Devices: PG-LT302/PG-LT201/PGBLT201C1/PG-LT102  
(“3) If you order internal backup devices by CTO, SCSI cable is attached with backup devices.

---

**Connecting Internal HDD and Internal Backup Devices**

Type of HDD connection

<table>
<thead>
<tr>
<th>Connection</th>
<th>Drive Cage</th>
<th>Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS / RAID</td>
<td>Standard Drive Cage (6bays)</td>
<td>SAS Controller (standard)</td>
</tr>
<tr>
<td>RAID</td>
<td>When Internal HDD Unit Bay Conversion kit (PG-BC103) is applied. (+2bays)</td>
<td>SAS RAID Ctl (PG-140F/PGB140G) (SAS Controller (standard))</td>
</tr>
</tbody>
</table>

* In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.

---

**SAS RAID Configuration**

- SAS Controller: (installed as standard)
  - In case that SAS Controller installed as standard is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.
  - RAID1 configuration can be set.
  - Hot spare disk cannot be set.

- SAS RAID Ctl: (without BBU)
  - PG-140F
  - PGB140F (for CTO)

- RAID 0/1/5/1+0 configuration can be set.

- To set RAID configuration, two or more HDDs which are same capacity and same rpm should be connected to SAS Controller installed as standard.

**RAID Configuration**

- SAS RAID Ctl: (without BBU)
  - PG-140F
  - PGB140F (for CTO)

* RAID 0/1/5/1+0 configuration can be set.

To set RAID configuration, two or more HDDs which are same capacity and same rpm should be connected to SAS Controller installed as standard.

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**Internal HDD**

- **SAS / RAID Configuration**
  - SAS Controller: (installed as standard)
  - RAID 0/1/5/1+0 configuration can be set.
  - To set RAID configuration, two or more HDDs which are same capacity and same rpm should be connected to SAS Controller installed as standard.

- **RAID Configuration**
  - SAS RAID Ctl: (without BBU)
    - PG-140F
    - PGB140F (for CTO)

* RAID 0/1/5/1+0 configuration can be set.

To set RAID configuration, two or more HDDs which are same capacity and same rpm should be connected to SAS Controller installed as standard.
In case that internal backup device is ordered by CTO.

* One SCSI cable is attached with backup device ordered by CTO and can be connected to multiple backup devices.  

* One internal backup device can be ordered by CTO.

Tape Drv LTO3 Ultrium3/Ultrium2 400GB  
PG-LT302  

Tape Drv LTO3 Ultrium3/Ultrium2 400GB w/ SCSI Cable  
PGBLT302C (for CTO)  
* One internal backup device can be ordered by CTO.

SCSI Ctrl U160  
PG-1281  
PGB1281 (for CTO)  

SCSI Cable 1.7m  
PG-CBLS025  
* One SCSI cable can be connected to multiple backup devices.  

In case that internal backup device is ordered without CTO.

Tape Drv LTO2 Ultrium2 200GB  
PG-LT201  

Tape Drv LTO2 Ultrium2 200GB w/ SCSI Cable  
PGBLT201C1 (for CTO)  
* One internal backup device can be ordered by CTO.

SCSI Ctrl U160 (PGB1281) should be ordered too.  
PG-LT102  

When internal HDD Unit Bay Conversion kit (PG-BC103) is applied, internal backup devices can not be mounted on 5 inch bays.

One internal backup device can be ordered by CTO.

SCSI Cable 1.5m  
PG-CBLS001  
SCSI Cable HDC1 5m  
PG-CBLS002  
PRIMERGY SX10  
PG-R1BC4  

* Please find more information on the internal backup devices for PRIMERGY SX10 in Rackmount[Internal Backup Devices with PRIMERGY SX10]
Specifications are subject to change without notice. For the latest detailed information, contact your local representative.

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