

THE POSSIBILITIES ARE INFINITE



PRIMERGY[®]

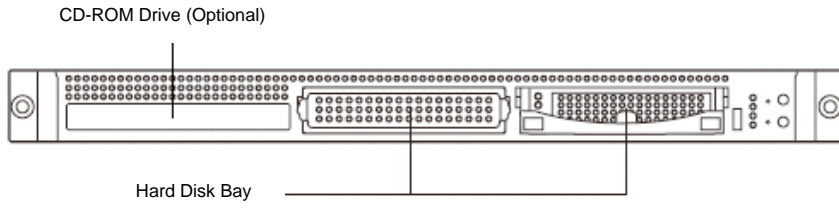
System Configuration and Order-information Guide

RX100 S4

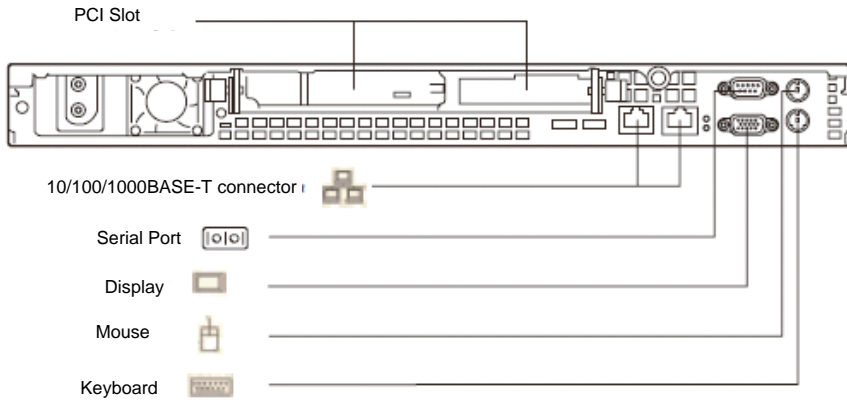
February 2008

PRIMERGY RX100 S4

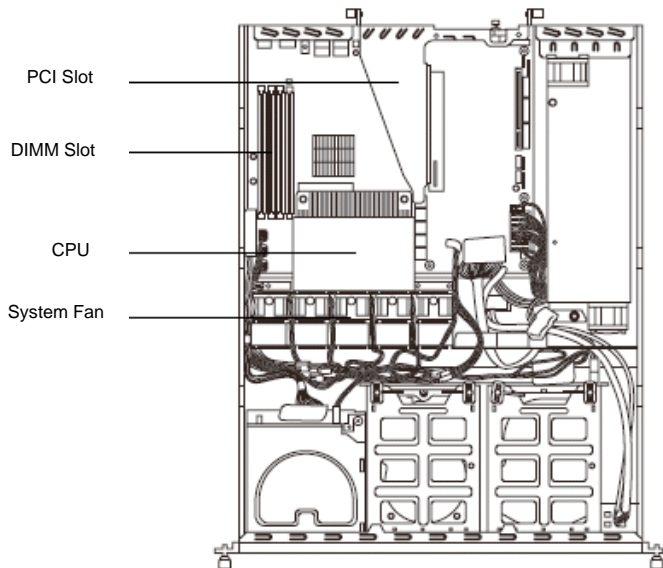
Front View



Back View



Inside View



Instruction

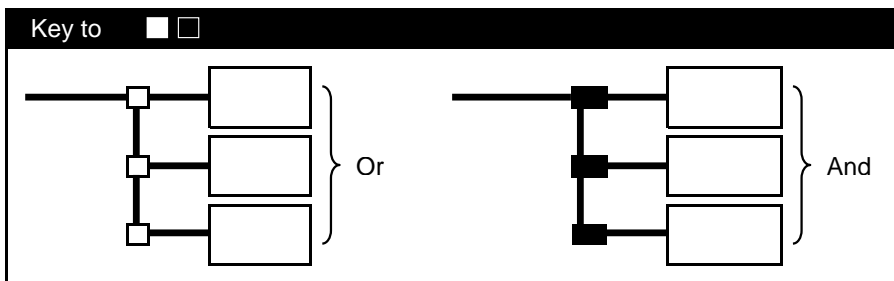
This document contains basic product and configuration information that will enable you to configure your system.

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 server 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.



Data Sheet

Type		Mono-Processor Rack Server
Base Unit	Xeon® 3040 (1.86GHz)	PGUR1044A
CPU	Frequencies	Dual-Core Intel® Xeon® 3070 (2.66GHz) *5 / 3040 (1.86GHz)
	Second-Level-Cache	4MB (Dual-Core Intel® Xeon® 3070 (2.66GHz)) / 2MB (Dual-Core Intel® Xeon® 3040 (1.86GHz))
Front-Side-Bus		1066MHz (Dual-Core Intel® Xeon® 3070 (2.66GHz) / 3040 (1.86GHz))
Chipset		Intel® 3000
Memory	Standard	512MB (512MB ECC DDR2 SDRAM DIMM x 1)
	Maximum *1	8GB (2GB ECC DDR2 SDRAM DIMM x 4)
Graphics Controller		incl. Remote Management Controller, VRAM : 1.7MB
Resolution *2	640x480 dot	16777216 colors
	800x600 dot	16777216 colors
	1024x768 dot	65536 colors
	1280x1024 dot	256 colors
Internal Bays 3.5 inch HDD (SAS)	Number of bays	2 (hot plug)
	Available HDD *3	73.4GB (PG-HDB75A) 15krpm, SAS
		146.8GB (PG-HDB45A) 15krpm, SAS
		300.0GB (PG-HDB35A) 15krpm, SAS
Maximum *3	600.0GB (300.0GB x 2)	
CD-ROM		optional (Max 24 ATAPI) *6
PCI Slots	PCI Express (x8) [x8]	0 (1 : Full Height PCI Express Card or LowProfile PCI Express Card when PCI Slot Conversion kit (PGBCSU105) is applied.)
	PCI-X (64bit/100MHz) [3.3V]	0 (1 : LowProfile PCI Card Only when PCI Slot Conversion kit (PGBCSU105) is applied.)
	PCI-X (64bit/66MHz) [3.3V]	1 : Full Height PCI Card or LowProfile PCI Card (0 when PCI Slot Conversion kit (PGBCSU105) is applied.) 1 : LowProfile PCI Card Only (0 when PCI Slot Conversion kit (PGBCSU105) is applied.)
RAID Controller		Onboard
SAS Controller		Onboard, SAS x 2ports (with RAID1 function)
FDD		- *7
Network Controller (onboard)		1 port (1000BASE-T/100BASE-TX/10BASE-T) 1 port (1000BASE-T/100BASE-TX/10BASE-T) shared with Remote Management Controller
Interfaces		Display (Analog RGB), Serial Port (D-SUB 9pins) Keyboard (PS/2type Mini DIN 6pins), Mouse (PS/2type Mini DIN 6pins), USB x 3 (ver. 2.0)
Server Management Software		ServerView (Standard)
Remote Service function		standard (onboard, Remote Management Controller)
Power supply	Voltage	AC 100-127V (50/60Hz) / AC 200-240V (50/60Hz) x 1 (max. 1)
	Power consumption	270W / 972kJ/h (max.)
	Redundant power supply	-
Redundant Fan		-
Dimensions (mm)		429 (482 incl. protruding parts)(W) x 562 (596 incl. protruding parts)(D) x 42 (1U) (H)
Weight		15kg (max.)
Environmental Conditions		Temperature10-35°C / Humidity 20-80% (non condensing)
OS Support *4		Windows Server® 2003 R2, Standard Edition / Windows Server® 2003 R2, Standard Edition (SP2 *8) Windows Server® 2003, Standard Edition (SP1/SP2 *8) Windows Server® 2003 R2, Standard x64 Edition / Windows Server® 2003 R2, Standard x64 Edition (SP2 *8) Windows Server® 2003, Standard x64 Edition / Windows Server® 2003, Standard x64 Edition (SP2 *8) Windows® 2000 Server (SP4) Red Hat Enterprise Linux ES (v.4 for x86) *9 / Red Hat Enterprise Linux ES (v.4 for EM64T) *9 Red Hat Enterprise Linux 5 (for x86) *9 *10 / Red Hat Enterprise Linux 5 (for Intel64) *9 *10
Attached tool (Standard)		ServerStart (Setup Support tool) *11

*1. Available memory capacity will be changed by the type of OS. Please find more details in Notes[Memory OS Compatibility List].

*2. Resolution is determined by functions of the display monitor and OS.

*3. HDD capacity is calculated according to the formula 1GB=1000³ byte.

*4. Drivers for Linux are not attached. Please download and use drivers of the following URL.

<http://www.fujitsu.com/global/services/computing/server/ia/driver/>

*5. CPU Conversion kit: Xeon 3040(1.86GHz/2MB) -> Xeon 3070(2.66GHz/4MB) (PGBFU31W) is available for upgrading to Dual-Core Intel® Xeon® 3070 (2.66GHz).

*6. One CD-ROM or DVD-ROM is required as a minimum in multiple servers.

If neither CD-ROM ATAPI (PG-CD324/PGBCD324) nor DVD-RAM ATAPI (PGBDVA102) are ordered,

it is necessary to procure USB-CD-ROM or USB-DVD-ROM separately.

*7. One USB-FDD is required as a minimum in multiple servers.

It is necessary to procure USB-FDD separately.

*8. There are some notes for Windows 2003 SP2. Please refer to Notes of Support Matrix.

<http://www.fujitsu.com/downloads/PRMRGY/support-matrix.pdf>

*9. Regarding supported kernel versions of Linux, please refer to the following list.

<http://www.fujitsu.com/downloads/PRMRGY/linux-os-kernel-compatibility-list.pdf>

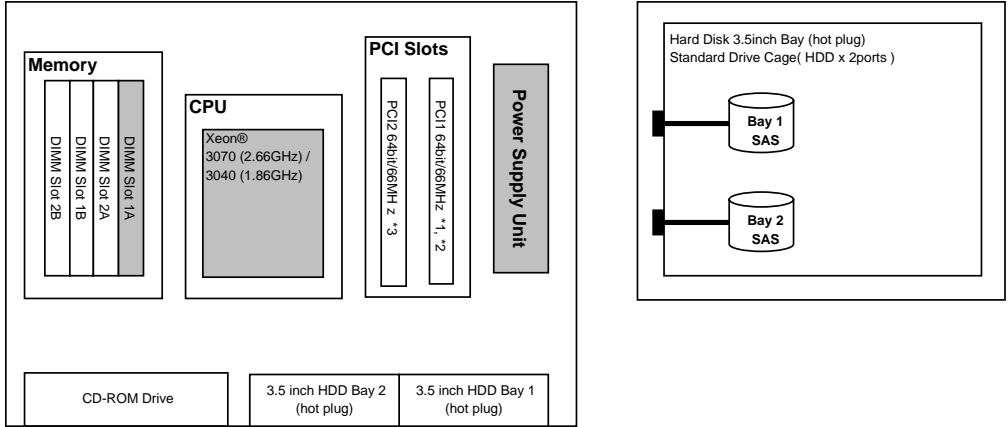
*10. VM (Virtual Machine) function is not supported.

*11. ServerStart doesn't support Linux.

*. Noise level is 46dB.

PRIMERGY RX100 S4

Configuration Diagram



- *1. PCI 1 : for Full Height PCI card and LowProfile PCI card
 - *2. By applying PCI Slot Conversion kit (PGBCSU105), PCI1 slot is changed to the slot for Full Height PCI Express card and LowProfile PCI Express card.
 - *3. PCI 2 : for LowProfile PCI card (Full Height PCI card cannot be installed.)
- *Components installed as standard configuration marked in grey.

Mountable I/O Options

(1) Standard PCI Slot

Mount Priority	Mountable Cards	PG	Bus	PCI Slot		Max No. of Mount	Remarks
				1	2		
				PCI-X 64bit/ 66MHz			
				Full Height/ Low Profile	Low Profile		
				3.3V			
High ↑ ↓ Low	SCSI Ctrl U160 lp	PG-1301L / PGB1301L	PCI/64bit	-	[1]	1	LowProfile PCI Card, External SCSI Controller
	Eth. Ctrl 1000-BASE-T Cu lp	PG-1892L	PCI-X/64bit	[2]	[1]	2	LowProfile PCI Card
	Eth. Ctrl 1000-BASE-SX Fibre LC lp	PG-1882L	PCI-X/64bit	[2]	[1]	2	LowProfile PCI Card
	Eth. Ctrl 2x1Gbit PCI-X 1000-BASE-T lp	PG-1863L	PCI-X/64bit	[2]	[1]	2	LowProfile PCI Card
	Eth. Ctrl 1x1Gbit PCI 1000-BASE-T lp	PG-1853L / PGB1853L	PCI-X/32bit	[2]	[1]	2	LowProfile PCI Card No AFT/ALB Support

* [n] : Installation Priority
 * - : cannot be installed

(2) PCI Slot with PCI Slot Conversion kit (PGBCSU105)

Mount Priority	Mountable Cards	PG	Bus	PCI Slot		Max No. of Mount	Remarks
				1	2		
				PCI Express x8 lane	PCI-X 64bit/ 100MHz		
				Full Height/ Low Profile	Low Profile		
				x8 socket	3.3V		
High ↑ ↓ Low	SCSI Ctrl U160 lp	PG-1301L / PGB1301L	PCI/64bit	-	[1]	1	LowProfile PCI Card, External SCSI Controller
	Eth. Ctrl 1000-BASE-T Cu lp	PG-1892L	PCI-X/64bit	-	[1]	1	LowProfile PCI Card
	Eth. Ctrl 1000-BASE-SX Fibre LC lp	PG-1882L	PCI-X/64bit	-	[1]	1	LowProfile PCI Card
	Eth. Ctrl 2x1Gbit PCI-X 1000-BASE-T lp	PG-1863L	PCI-X/64bit	-	[1]	1	LowProfile PCI Card
	Eth. Ctrl 1x1Gbit PCI 1000-BASE-T lp	PG-1853L / PGB1853L	PCI-X/32bit	-	[1]	1	LowProfile PCI Card No AFT/ALB Support
	Eth. Ctrl 2x1Gbit PCI-E 1000-BASE-T lp	PG-2861L / PGB2861L	PCI Express (x4)	[1]	-	1	LowProfile PCI Express Card
	Eth. Ctrl 1x1Gbit PCI-E 1000-BASE-T lp	PG-289L / PGB289L	PCI Express (x1)	[1]	-	1	LowProfile PCI Express Card
	Eth. Ctrl 1x1Gbit PCI-E 1000BASE-SX lp	PG-288L	PCI Express (x4)	[1]	-	1	LowProfile PCI Express Card

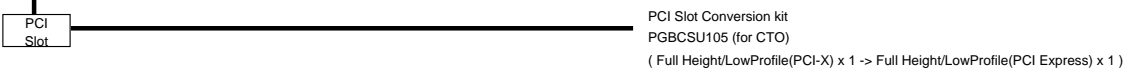
* [n] : Installation Priority
 * - : cannot be installed

Connection Table

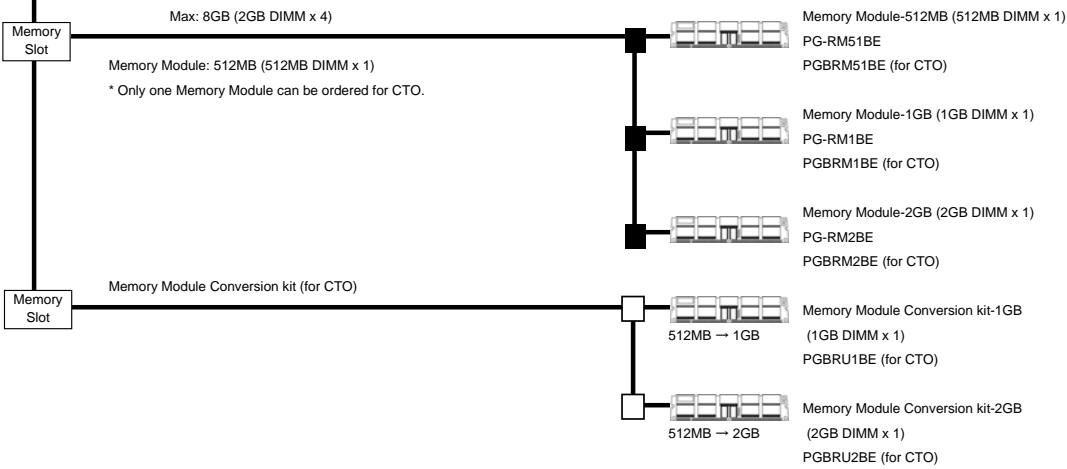
*CPU Conversion Kit (available only as a Configure To Order (CTO) option; no separate shipment as a loose part is possible)

Type	Product ID	
CPU Conversion kit: Xeon 3040(1.86GHz/2MB) -> Xeon 3070(2.66GHz/4MB) (for CTO)	PGBFU31W	Dual-Core Intel® Xeon® 3040(1.86GHz/2MB) -> Dual-Core Intel® Xeon® 3070(2.66GHz/4MB) Convert the CPU installed as standard in the base unit to the other. (Note: This option can be ordered only as coupled with the base unit. A separate shipment as a loose part is not possible.)

PCI Card Slot Conversion



Memory



*. The order of Memory installation is as following.

- [DIMM slot 1A] -> [DIMM slot 1B] -> [DIMM slot 2A]-> [DIMM slot 2B]
- [Memory Module-512MB (512MB DIMM x 1)] -> [Memory Module-1GB (1GB DIMM x 1)] -> [Memory Module-2GB (2GB DIMM x 1)]

(Available Memory Area)

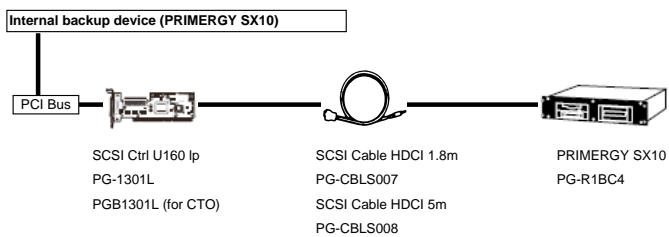
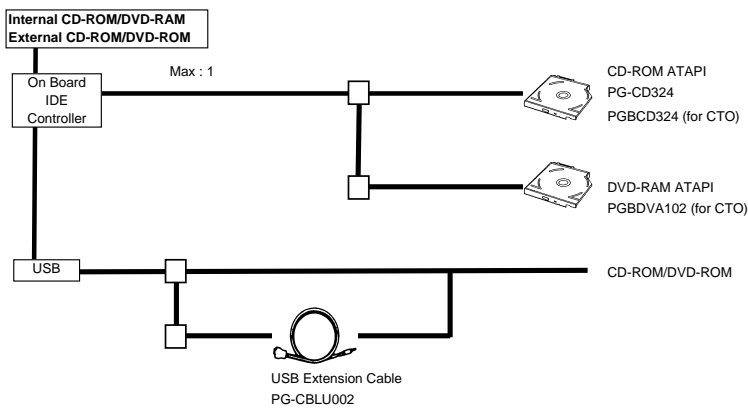
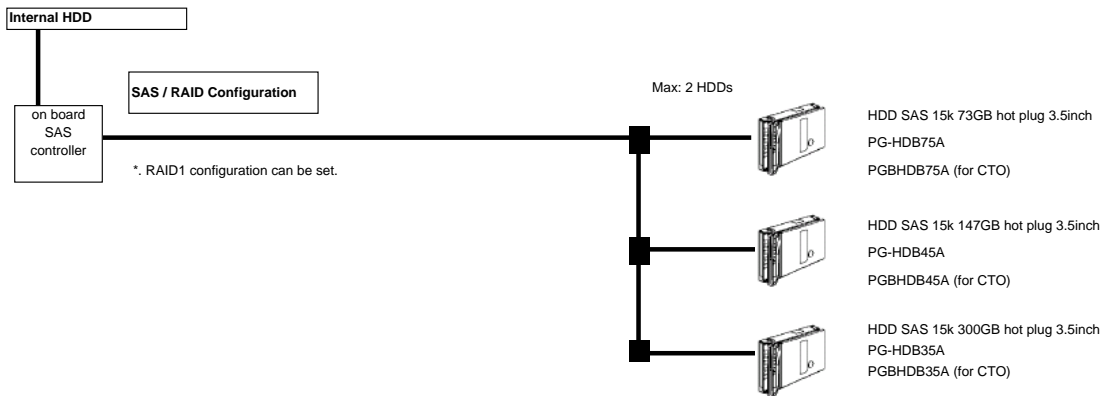
OS	Mounted Memory	Available Memory Area
Windows® 2000 Server (SP4) / Windows Server® 2003, Standard Edition (SP1) / Windows Server® 2003 R2, Standard Edition	~3.5GB	Same as the size of mounted memory
	4.0GB	Size of Mounted Memory minus "0.5GB"
Windows Server® 2003, Standard x64 Edition / Windows Server® 2003 R2, Standard x64 Edition	~8.0GB	Same as the size of mounted memory
Red Hat Enterprise Linux ES (v.4 for EM64T) / Red Hat Enterprise Linux 5 (for Intel64)	~2.5GB	Same as the size of mounted memory
	3.0GB~4.5GB	Size of Mounted Memory minus "0.1GB"
Red Hat Enterprise Linux ES (v.4 for x86) / Red Hat Enterprise Linux 5 (for x86)	~3.5GB	Same as the size of mounted memory
	4.0GB~8.0GB	Size of Mounted Memory minus "0.3GB"

Connecting Internal HDD and Internal Backup Devices

If you would like to order internal HDD and internal backup devices, please order optional cards/cables according to the following table.

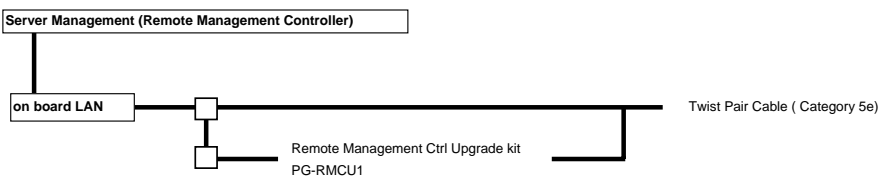
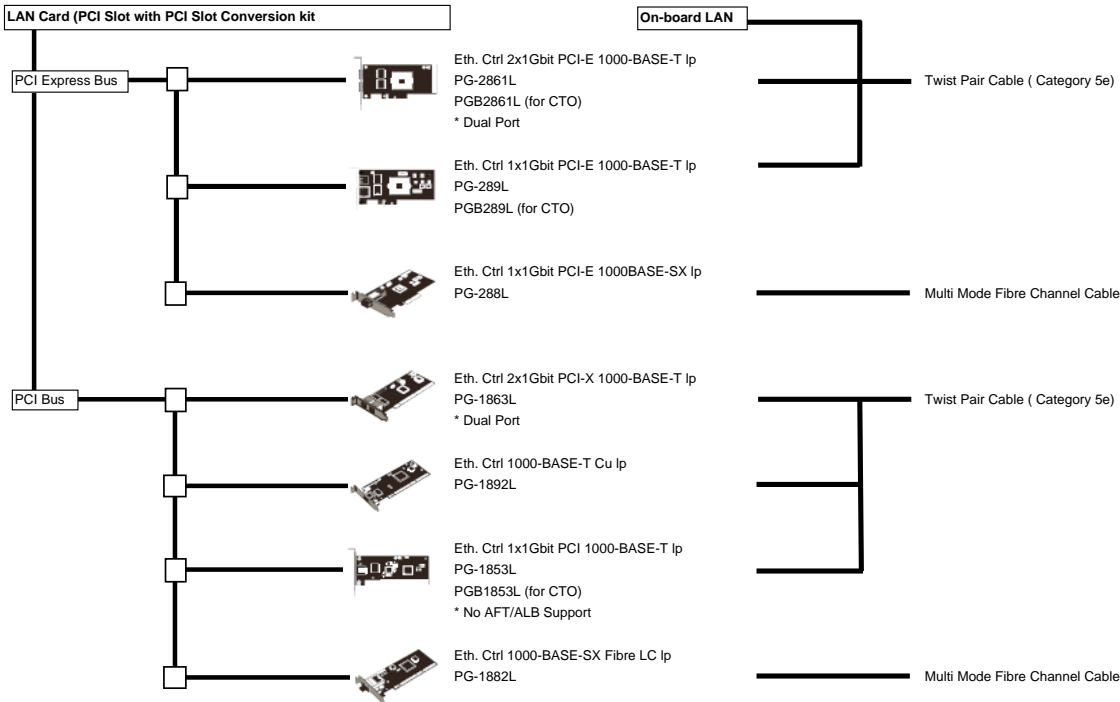
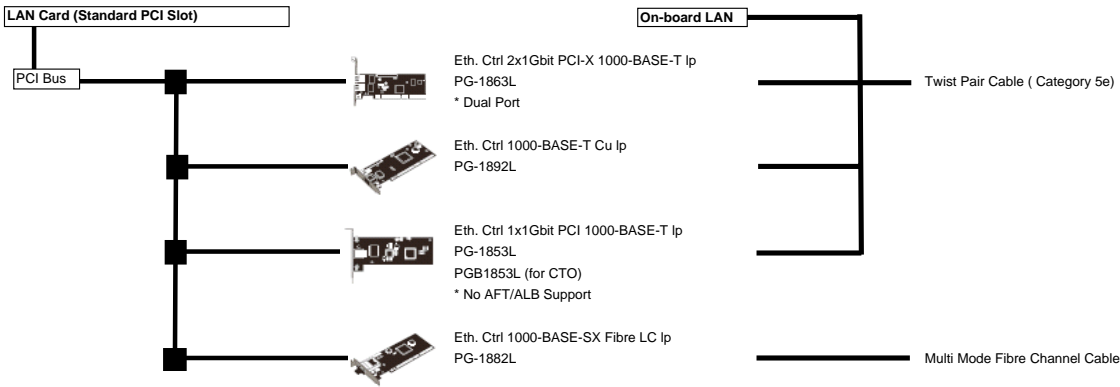
Type of HDD connection		PRIMERGY SX10 Internal Backup Devices
Connection	Interface	
SAS / RAID	Onboard SAS	SCSI Card (PG-1301L/PGB1301L) SCSI Cable (PG-CBLS007/PG-CBLS008)

(*1) SCSI Wide Backup Devices: PG-DT501/PG-LT302 /PG-LT201/PG-LT102



*Please find more information on the internal backup devices for PRIMERGY SX10 in Rackmount [Internal Backup Devices with PRIMERGY SX10]

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