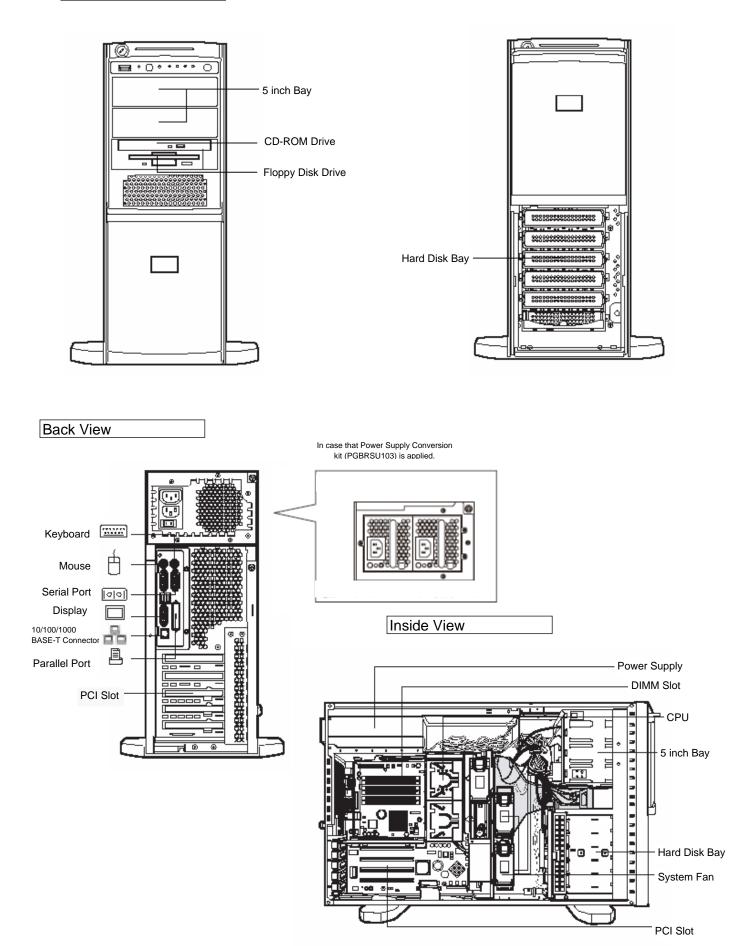
PRIMERGY[®]

System Configuration and order-information Guide

TX200 S2

September 2006

Front View



Instruction

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

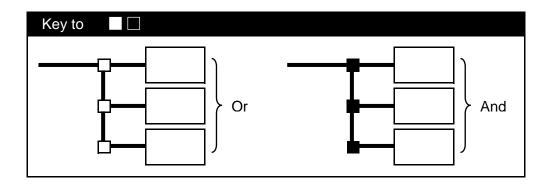
Only these tools will ensure a fast and proper configuration of your PRIMERGY server or your complete PRIMERGY Rack system.

You can configure your individual PRIMERGY 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.



Data Sheet

Туре		Dual-Processor Tower Server					
Base Unit		PGUT2023A3					
CPU	Frequencies	64-bit Intel® Xeon® 3.80GHz ^{*6} /3.40EGHz ^{*7} /3.20EGHz ^{*8} /3EGHz					
	Second-Level-Cache	2MB					
	Multi Processor	1 (Max. 2)					
Front-Side-Bus		800MHz					
Chipset		Intel® E7320					
Memory Standard		512MB (256MB ECC DDR SDRAM DIMM x 2) (SDDC(Single Device Data Correction) supported)					
	Maximum *1	12GB (2GB ECC DDR SDRAM DIMM x 6)					
Graphics Contr	oller	ATI Rage XL, VRAM:8MB (PCI)					
Resolution *2		640x480/800x600/1024x768/1280x1024 dot					
Internal Bays	Number of bays	6 (9 by applying Internal HDD Unit Bay Conversion kit) (hot plug)					
3.5 inch	Available HDD (Ultra320) *3	73.4GB (PG-HDH71K) 10krpm, U320 SCSI					
HDD		146.8GB (PG-HDH41K) 10krpm, U320 SCSI					
		300.0GB (PG-HDH31K) 10krpm, U320 SCSI					
		73.4GB (PG-HDH75K) 15krpm, U320 SCSI					
		146.8GB (PG-HDH45V) 15krpm, U320 SCSI					
	Maximum *3	1.8TB (2.7TB by applying Internal HDD Unit Bay Conversion kit)					
Internal Bays 5	inch	3 (2 free bays) (1 (0 free bay) by applying Internal HDD Unit Bay Conversion kit)					
CD-ROM		standard (Max 24 ATAPI)					
PCI Slots	PCI-X (64bit/133MHz) (3.3V) *4	2 (2 x Full Size)					
	PCI-X (64bit/100MHz) (3.3V) *4	2 (2 x Full Size)					
	PCI (32bit/33MHz) (5.0V)	1 (1 x Full Size)					
RAID Controller		optional					
SCSI Controller		Ultra320 SCSI x 2ch					
Internal FDD		3.5inch (1.44MB/720KB)					
Network Contro	ller (onboard)	1 port (1000 BASE-T/100 BASE-TX/10BASE-T)					
Interfaces		CRT (Analog RGB), Serial Port x 2 (D-SUB 9pins), Parallel Port (D-SUB 25pins/optional)					
		Keyboard (PS/2type Mini DIN 6pins), Mouse (PS/2type Mini DIN 6pins), USB x3 (ver. 2.0)					
Server Manage	ment Software	ServerView (standard)					
Power supply	Voltage	AC100V (50/60Hz) / 200V (50/60Hz) x1(max. 2)					
	Power consumption	550W /1980kJ/h (max.)					
	Redundant power supply	optional					
Redundant Far		optional					
Dimensions (m	m)	Pedestal: 174 (286 incl. protruding parts)(W) x 753 (D) x 474 (H)					
		Rackmount: 483 (W) x 699 (750 incl. protruding parts)(D) x 177 (4U) (H)					
Weight		Pedestal: 38kg (max.) / Rackmount: 40kg (max.)					
Environmental Conditions		Temperature10-35°C / Humidity 20-80% (non condensing)					
OS Support *5		Windows Server ™2003, Standard Edition/Windows Server ™2003, Enterprise Edition					
		Windows Server™ 2003, Standard x64 Edition/Windows Server™ 2003, Enterprise x64 Edition					
		Windows® 2000 Server/Windows® 2000 Advanced Server					
		Red Hat Enterprise Linux ES (v.3 for x86)/Red Hat Enterprise Linux ES (v.4 for x86)					
		Red Hat Enterprise Linux AS (v.3 for x86)/Red Hat Enterprise Linux AS (v.4 for x86)					
		Red Hat Enterprise Linux ES (v.4 for EM64T)					

*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 formulas 1GB=1000 ³ byte and 1TB=1000⁴ 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 URL.

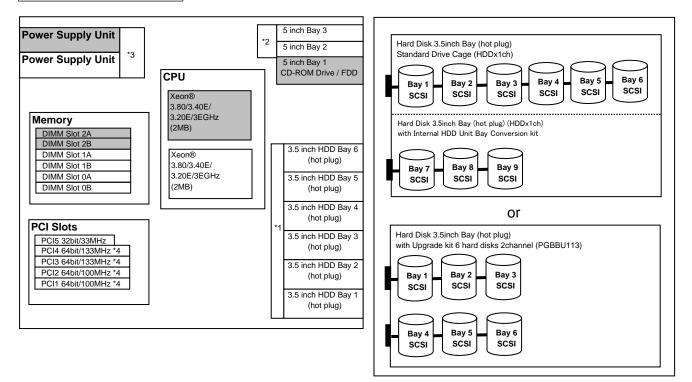
http://www.fujitsu.com/global/services/computing/server/ia/driver/

*6. CPU Conversion kit: Xeon(3.0GHz/2MB) -> Xeon(3.8GHz/2MB)(PGBFU33D) is available for upgrading to 64-bit Intel® Xeon® 3.80GHz.

*7. CPU Conversion kit: Xeon(3.0GHz/2MB) -> Xeon(3.4GHz/2MB)(PGBFU33C) is available for upgrading to 64-bit Intel® Xeon® 3.40EGHz.

*8. CPU Conversion kit: Xeon(3.0GHz/2MB) -> Xeon(3.2GHz/2MB)(PGBFU233) is available for upgrading to 64-bit Intel® Xeon® 3.20EGHz.

Configuration Diagram



*1.Upgrade kit 6 hard disks 2 channel (2x3)(PGBBU113) is available for upgrading 3.5inchHDD Bay from 6Bay/1ch to 6Bay/2ch.

*2: By applying Internal HDD Unit Bay Conversion kit (PG-BC102), 5 inch bay x 2 can be converted to 3.5 inch x 3.

In the case Upgrade kit 6 hard disks 2 channel (2x3) (PGBBU113) is applied, Internal HDD Unit Bay Conversion kit (PG-BC102) can not be used.

*3.Power Supply Conversion kit(PGBRSU103) is available for changing Power Supply x1, FAN x2 to Redundant Power Supply x2, FAN x4.

*4. Frequency will be changed by the spec of PCI card and number of cards mounted.

*Components installed as standard configuration marked in grey.

Mountable I/O Options

Mount Priority	Mountable Cards		Bus	PCI Slot Priority 1 2 3 4 PCI-X 64bit/ 64bit/ 100MHz*1 133MHz*1		5 PCI 32bit/ 33M Hz	Max No. of Mount			Remarks		
				Full Height 3.3V 5.0V								
High	Remote Service Board	PG-RSB103 / PGBRSB103		-	-	-	-	1	1	1	Π	
▲	RAID Ctrl 0-Channel 128MB	PG-140D1 / PGB140D1	PCI-X/64bit	1	-	-	-	-	1			Internal array
	RAID Ctrl 2-Channel 128MB w/BBU	PGB142E3B	PCI/64bit	1	-	-	-	-	1 2			Internal array for CTO
		PG-142E3	PCI/64bit	1	2	3	4	-	2			Internal / External array
	SCSI Ctrl U160	PG-128 / PGB128	PCI/64bit	1	2	3	4	-	2	4		Internal / External SCSI Controller
	Fibre Channel Controller	PG-FC107 / PGBFC107	PCI-X/64bit	3	4	1	2	-	2		5	
	Eth. Ctrl 1000-BASE-T Cu	PG-1892 / PGB1892	PCI-X/64bit	3	4	1	2	-	4			
	Eth. Ctrl 1000-BASE-SX Fibre LC	PG-1882	PCI-X/64bit	3	4	1	2	-	2	4		
ļļ	Eth. Ctrl 1000-BASE-T Cu	PG-1852 / PGB1852	PCI/32bit	2	3	4	5	1	3	-		No AFT/ALB support
Low	Eth. Ctrl 2x1000-BASE-T Cu	PG-1862	PCI-X/64bit	3	4	1	2	-	2			

*-: cannot be applied

*1.Frequency will be changed by the spec of PCI card and number of cards mounted.

Connection Table

Form factor conversion (Pedestal to Rackmount)



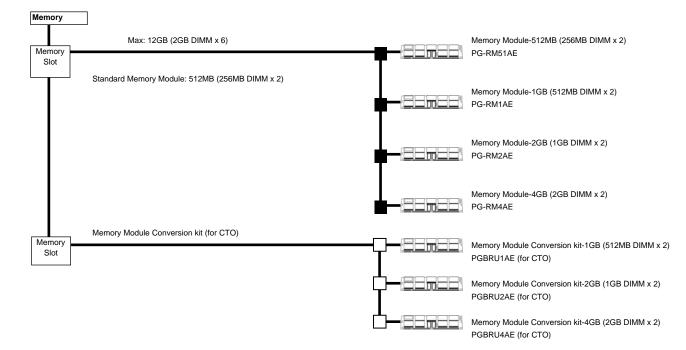
Rack Conversion kit for TX200S2 (Pedestal to Rackmount (4U)) PG-R1CK18 PGBR1CK18 (for CTO) (Note: When this CTO option (PGBR1CK18) is ordered, neither keyboard nor mouse will be attached to the base unit

CPU Max: 2 CPU Processor Xeon 3.0GHz/2MB CPU PG-FG232 Slot PGBFG232 (for CTO) *. This option is available when the processor of the base unit is Processor Xeon 3.0GHz/2MB. Processor Xeon 3.2GHz/2MB PG-FG233 PGBFG233 (for CTO) *. This option is available when CPU Conversion Kit: Xeon (3.0GHz/2MB)→Xeon(3.2GHz/2MB) (PGBFU233) is applied. Processor Xeon 3.4GHz/2MB PG-FG33C PGBFG33C (for CTO) *. This option is available when CPU Conversion Kit: Xeon (3.0GHz/2MB)→Xeon(3.4GHz/2MB) (PGBFU33C) is applied. Processor Xeon 3.8GHz/2MB PG-FG33D PGBFG33D (for CTO)

*. This option is available when CPU Conversion Kit: Xeon (3.0GHz/2MB)→Xeon(3.8GHz/2MB) (PGBFU33D) is applied.

*CPU Conversion Kit (available only for a Configure to Order (CTO) option; no separate shipment is possible)

Туре	Product ID					
CPU Conversion Kit:		64-bit Intel® Xeon® 3EGHz → 64-bit Intel® Xeon® 3.20EGHz				
Xeon (3.0GHz/2MB)	PGBFU233	Convert the CPU installed as standard in the base unit to the other.				
→Xeon(3.2GHz/2MB)	1 001 0235	(Note: This option can be ordered only as coupled with the base unit.				
(for CTO)		A separate shipment is not possible.)				
CPU Conversion Kit:		64-bit Intel® Xeon® 3EGHz \rightarrow 64-bit Intel® Xeon® 3.40EGHz				
Xeon (3.0GHz/2MB)	PGBFU33C	Convert the CPU installed as standard in the base unit to the other.				
→Xeon(3.4GHz/2MB)	1 021 0000	(Note: This option can be ordered only as coupled with the base unit.				
(for CTO)		A separate shipment is not possible.)				
CPU Conversion Kit:		64-bit Intel® Xeon® 3EGHz → 64-bit Intel® Xeon® 3.80GHz				
Xeon (3.0GHz/2MB)	PGBFU33D	Convert the CPU installed as standard in the base unit to the other.				
→Xeon(3.8GHz/2MB)		(Note: This option can be ordered only as coupled with the base unit.				
(for CTO)		A separate shipment is not possible.)				



*. Notes on installing memory

1. Memory is installed by pairs of DIMMs of the same capacity. Installation of one DIMM or a mixed-capacity pair is impossible.

2. Memory banks should be occupied in the following order:

2A,2B (Bank2) -> 1A,1B (Bank1) -> 0A,0B (Bank0)

(Available Memory Area)

Mounted Memory	Available Memory Area				
~3.0GB	Same as the size of mounted memory				
3.5~12.0GB	Size of Mounted Memory minus "0.1-0.8GB"				

(Note: "0.1-0.8GB" which is being used for PCI resource management

depends on the type and the number of installed memory modules.

Connecting Internal HDD and Internal Backup Devices

Onboard SCSI Ultra320 A Ultra320 B

0 A HDD

HDD, Backup Device (Wide/Narrow)

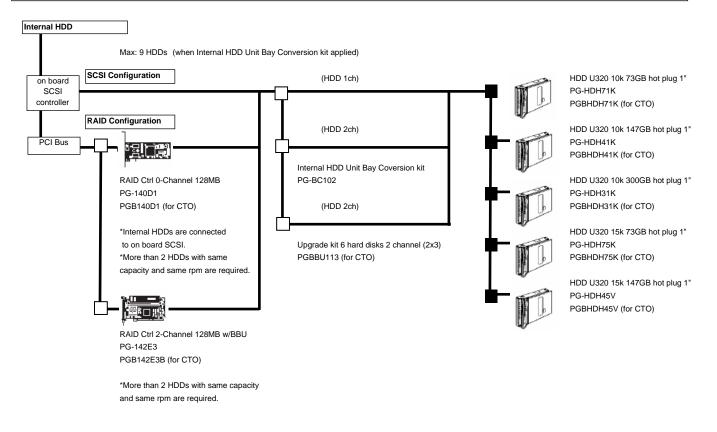
If you would like to order internal HDDs and internal backup devices, please order optional cards/cables according to the following table.

Type of HDD connection					Internal Backup Devices PRIMERGY TX200 S2
Connection	Drive Cage	Interface			Wide ("1) / Connection ("2)
	Standard Drive Cage (6bays/1ch)	Onboard SCSI (ChA) Onboard SCSI (ChA/B)			Onboard SCSI (ChB) SCSI Cable (PG-CBLS023) ("3)
SCSI	When Internal HDD Unit Bay Coversion kit (PG-BC102) is applied. (+3bays/1ch)				(not connect)
	When Upgrade kit 6 hard disks 2 channel (2x3) (PGBBU113) is applied. (6bays/2ch)	Onboard SCSI (ChA/B)			SCSI Card (PG-128) SCSI Cable (PG-CBLS023) ("3)
	Standard Drive Cage (6bays/1ch)	RAID Ctrl 0-Channel 128MB	When Tape Drv LTO2 Ultrium2 200GB (PG-LT201) or Tape Drv LTO3 Ultrium3/Ultrium2 400GB (PG-LT301) is mounted.	\Box	SCSI Card (PG-128) SCSI Cable (PG-CBLS023) ("3)
		(PG-140D1/PGB140D1) (Onboard SCSI (ChA))	When Tape Drv LTO2 Ultrium2 200GB (PG-LT201) and Tape Drv LTO3 Ultrium3/Ultrium2 400GB (PG-LT301) are not mounted.	\Box	Onboard SCSI (ChB) SCSI Cable (PG-CBLS023) ("3)
RAID		RAID Ctrl 2-Channel 128MB w/ BBU (PG-142E3/PGB142E3/PGB142E3B) (Ch0)			Onboard SCSI (ChB) SCSI Cable (PG-CBLS023) ("3)
	When Internal HDD Unit Bay RAID Ctrl 0-Channel 128MB Coversion kit (PG-BC102) is (PG-140D1/PGB140D1) applied. (+3bays/1ch) (Onboard SCSI (ChA/B))				(not connect)
		RAID Ctrl 2-Channel 128MB w/ BBU (PG-142E3/PGB142E3/PGB142E3B) (Ch0/1)			(not connect)
	When Upgrade kit 6 hard disks 2 channel (2x3) (PGBBU113) is applied. (6bays/2ch)	RAID Ctrl 0-Channel 128MB (PG-140D1/PGB140D1) (Onboard SCSI (ChA/B))			SCSI Card (PG-128) SCSI Cable (PG-CBLS023) ("3)
		RAID Ctrl 2-Channel 128MB w/ BBU (PG-142E3/PGB142E3/PGB142E3B) (Ch0/1)			Onboard SCSI (ChB) SCSI Cable (PG-CBLS023) ("3)

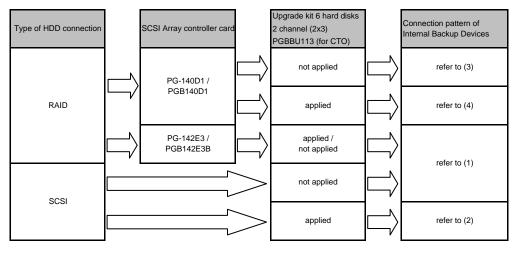
("1) Wide Backup Devices: PG-DT501/PGBDT501C/PG-LT301/PG-LT201/PGBLT201C/PG-VX201

("2) Backup Devices which occupy 2 bays: PG-LT301

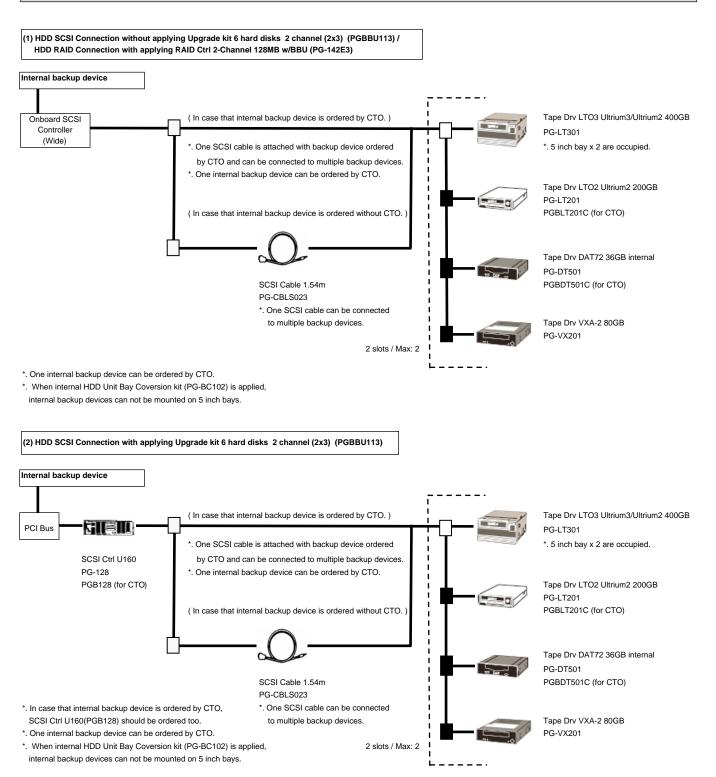
("3) If you order internal backup devices by CTO, SCSI cable is attached with backup devices.



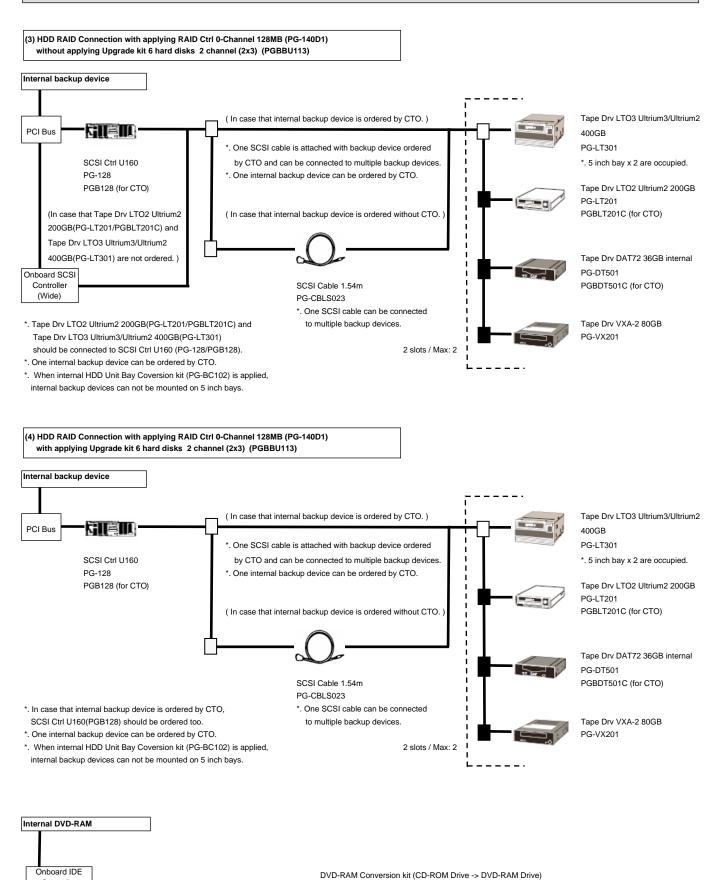
If you would like to order internal backup devices, please refer to the following table and find out connection pattern. And please order backup devices, necessary SCSI cards/SCSI cables according to the figure of the relevant pattern.



* When internal HDD Unit Bay Coversion kit (PG-BC102) is applied, internal backup devices can not be mounted on 5 inch bays.

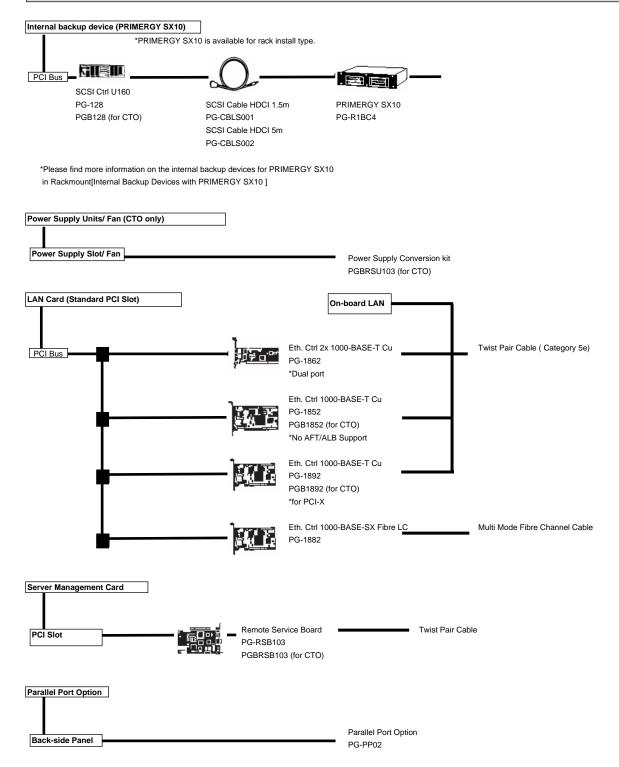


Controller



PGBDVAU101 (for CTO)

* DVD-RAM drive supports Read function, but does not support Write function.



Specifications are subject to change without notice. For the latest detailed information, contact your local representative.

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