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PRIMERGY®

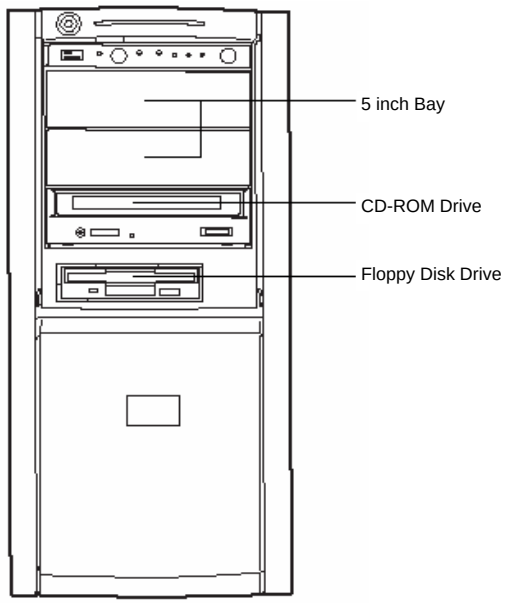
System Configuration and Order-information Guide

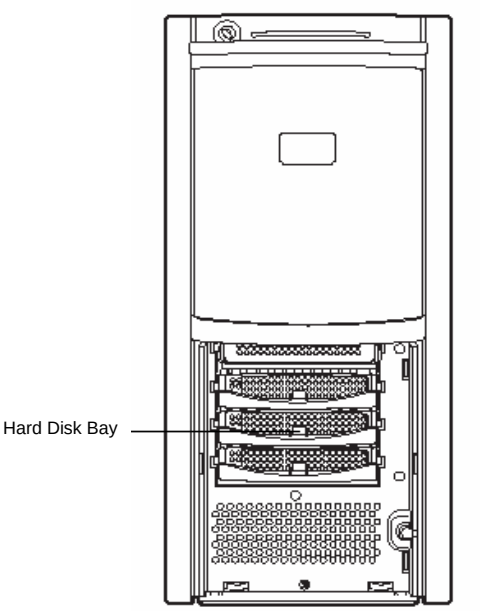
TX150 S4

November 2006

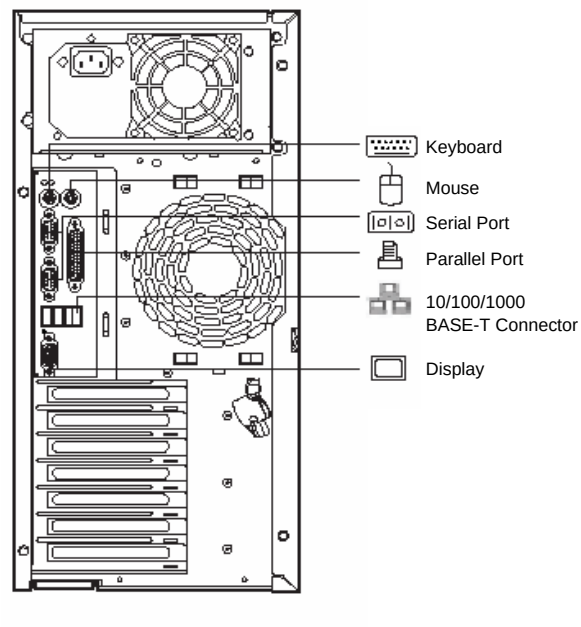
PRIMERGY TX150 S4

Front View

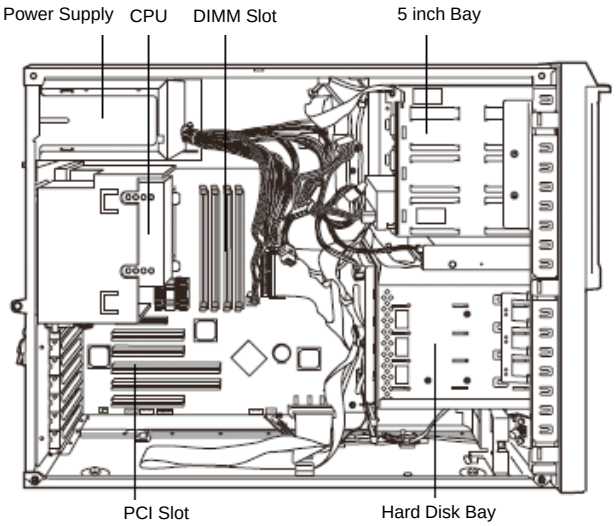




Back View



Inside View



PRIMERGY TX150 S4

Instruction

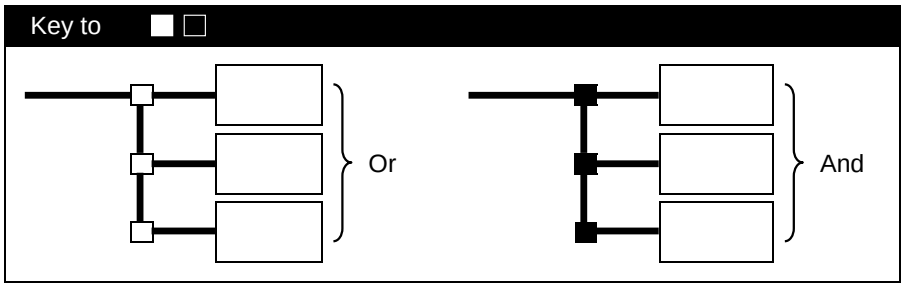
This document contains basic product and configuration information that will enable you to configure your system.

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.



PRIMERGY TX150 S4

Data Sheet

Type		Mono-Processor Tower Server		
Base Units		PGUT154CA	PGUT154EA	PGUT1546A
CPU	Frequencies	Intel® Celeron® D 341 2.93GHz	Intel® Pentium® 4 651 Supporting Hyper-Threading Technology 3.40GHz*5 / Intel® Pentium® 4 631 Supporting Hyper-Threading Technology 3GHz	Intel® Pentium® D 960 3.60GHz *6 / Intel® Pentium® D 930 3GHz
	Second-Level-Cache	256KB	2MB	2 x 2MB
Front-Side-Bus		533MHz	800MHz	
Chipset		Intel® E7230		
Memory	Standard	512MB (512MB ECC DDR2 SDRAM DIMM x 1)		
	Maximum *1	8GB (2GB ECC DDR2 SDRAM DIMM x 4)		
Graphics Controller		ATI Rage XL, VRAM:8MB (PCI)		
Resolution *2		640x480/800x600/1024x768/1280x1024 dot		
Internal Bays 3.5 inch HDD	Number of bays	4 (hot plug)		
	Available HDD (Ultra320) *3	73.4GB (PG-HDH71V) 10krpm, U320 SCSI 146.8GB (PG-HDH41V) 10krpm, U320 SCSI 300.0GB (PG-HDH31V) 10krpm, U320 SCSI 73.4GB (PG-HDH75V) 15krpm, U320 SCSI 146.8GB (PG-HDH45V) 15krpm, U320 SCSI		
	Standard *3	-		
	Maximum *3	1.2TB (300.0GB x 4) *7		
Internal Bays 5inch		3 (2 free bays)		
CD-ROM		standard (Max 48 ATAPI)		
PCI Slots	PCI-Express (x4)	1		
	PCI-X 64bit/66MHz (3.3V)	2 (2 x Full Size)		
	PCI 32bit/33MHz (5.0V)	3 (1 x Full Size)		
RAID Controller		Onboard		
SCSI Controller		Onboard, Ultra320 SCSI x 1ch (with RAID1 function) *7		
Internal FDD		3.5inch (1.44MB/720KB)		
Network Controller (onboard)		1 port (1000 BASE-T/100 BASE-TX/10BASE-T)		
Interfaces		Display (Analog RGB), Serial Port x 2 (D-SUB 9pins), Parallel Port (D-SUB 25pins). Keyboard (PS/2type Mini DIN 6pins), Mouse (PS/2type Mini DIN 6pins), USB x3 (ver. 2.0)		
Server Management Software		ServerView (standard)		
Power supply	Voltage	AC100V (50/60Hz) / 200V (50/60Hz) x1		
	Power consumption	260W /936kJ/h (max.)		
	Redundant power supply	-		
Redundant Fan		-		
Dimensions (mm)		Tower: 205(W)x602(D)x444(H) Rackmount: 440 (482 incl. protruding parts)(W)x562 (597 incl. protruding parts)(D)x221.2 (5U) (H)		
Weight		Tower: 27kg (max.) / Rackmount: 29kg (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 x64 Edition Windows Server® 2003, Standard Edition / Windows Server® 2003, Standard x64 Edition Windows® Small Business Server 2003 / Windows® 2000 Server (SP4) Red Hat Enterprise Linux ES (v.3 for x86) / Red Hat Enterprise Linux ES (v.4 for x86) Red Hat Enterprise Linux ES (v.4 for EM64T)		
Attached tool (Standard)		ServerStart (Setup Support tool) *8		

*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 $1TB=1000^4$ 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/

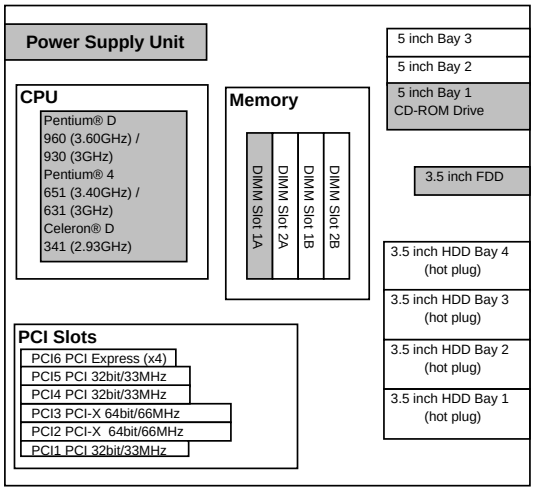
*5. CPU Conversion kit: Pentium4(3.0GHz/2MB) -> Pentium4(3.4GHz/2MB)(PGBFU31B) is available for upgrading to Intel® Pentium® 4 651 Supporting Hyper-Threading Technology 3.40GHz.

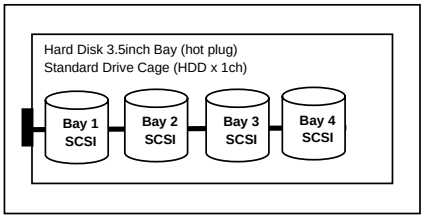
*6. CPU Conversion kit: Pentium D 930(3GHz/2x2MB) -> Pentium D 960(3.60GHz/2x2MB)(PGBFU30H) is available for upgrading to Intel® Pentium® D 960 3.60GHz.

*7. In case that On board SCSI Controller is used for RAID configuration, only 2 HDDs of same capacity and same rpm can be connected.

*8. ServerStart doesn't support Linux.

Configuration Diagram





*Components installed as standard configuration marked in grey.

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Mountable I/O Options

Mount Priority	Mountable Cards		Bus	PCI Slot Priority 1	2	3	4	5	6	Max No. of Mount			Remarks
				PCI	PCI-X		PCI		PCI Express				
				32bit /33MHz	64bit /66MHz		32bit /33MHz		x4 lane				
				Full Height									
				5.0V	3.3V		5.0V		x4 sockets				
High	RAID Ctrl 0-Channel 128MB (0ch/Ultra320)	PG-140D1 / PGB140D1	PCI-X/64bit	-	1	-	-	-	-	1			Internal array
	Remote Service Board	PG-RSB103	-	1	-	-	-	-	-	1			
	SCSI Ctrl U160 w/ SCSI Cable	PG-129B / PGB129B	PCI/32bit	-	-	-	1	-	-	1	3	5	SCSI cable for internal SCSI is attached
	SCSI Ctrl U160	PG-128	PCI/64bit	3	-	4	1	2	-	2			External SCSI Controller
	Eth. Ctrl 1000BASE-T Cu	PG-1892 / PGB1892	PCI-X/64bit	3	2	1	5	4	-	3	3		
Low	Eth. Ctrl 1000-BASE-T Cu	PG-1852 / PGB1852	PCI/32bit	3	2	1	5	4	-	3			No AFT/ALB support

*-: cannot be applied

Connection Table

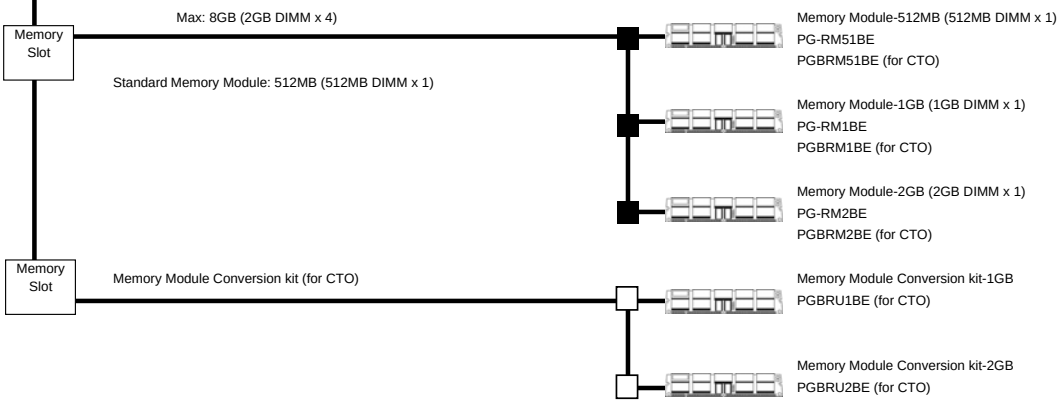
Form factor conversion (Tower to Rackmount)

Rack Conversion kit for TX150S2/S4
(Tower to Rackmount (5U))
PG-R1CK15
PGBR1CK15 (for CTO)

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

Type	Product ID	
CPU Conversion Kit: Pentium D 930(3GHz/2x2MB) -> Pentium D 960(3.60GHz/2x2MB) (for CTO)	PGBFU30H	Intel® Pentium® D 930 3GHz -> Intel® Pentium® D 960 3.60GHz 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 is not possible.)
CPU Conversion Kit: Pentium4(3.0GHz/2MB) -> Pentium4(3.4GHz/2MB) (for CTO)	PGBFU31B	Intel® Pentium® 4 631 Supporting Hyper-Threading Technology 3GHz -> 64-bit Intel® Pentium® 4 651 Supporting Hyper-Threading Technology 3.40GHz 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 is not possible.)

Memory



Memory Module-512MB (512MB DIMM x 1)
PG-RM51BE
PGBRM51BE (for CTO)

Memory Module-1GB (1GB DIMM x 1)
PG-RM1BE
PGBRM1BE (for CTO)

Memory Module-2GB (2GB DIMM x 1)
PG-RM2BE
PGBRM2BE (for CTO)

Memory Module Conversion kit-1GB
PGBRU1BE (for CTO)

Memory Module Conversion kit-2GB
PGBRU2BE (for CTO)

*. Notes on installing memory
1. Memory is installed by one or more DIMMs.
2. The memory capacities of the slots should be in ascending order in the following sequence:
1A -> 1B -> 2A -> 2B

(Available Memory Area)

OS	Mounted Memory	Available Memory Area
Windows® 2000 Server (SP4) / Windows Server® 2003, Standard Edition / Windows Server® 2003 R2, Standard Edition / Windows® Small Business Server 2003	～3.5GB	Same as the size of mounted memory
	4.0GB	Size of Mounted Memory minus "0.25GB"(*1)
Red Hat Enterprise Linux ES (v.3 for x86) / Red Hat Enterprise Linux ES (v.4 for x86) / Red Hat Enterprise Linux ES (v.4 for EM64T)	～3.5GB	Same as the size of mounted memory
	4.0～7.0GB	Size of Mounted Memory minus "0.2GB"(*2)
	8.0GB	Size of Mounted Memory minus "0.3GB"(*3)
Others	～8.0GB	Same as the size of mounted memory

***1:"0.25GB" is being used for PCI resource management.**

***2:"0.2GB" is being used for PCI resource management.**
***3:"0.3GB" is being used for PCI resource management.**

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Connecting Internal HDD and Internal Backup Devices

Onboard SCSI — Ultra320 — for Internal HDD

Type of HDD connection	
Type	Interface
SCSI/RAID	On-board SCSI (ChA)
RAID	RAID Ctrl 0-Channel 128MB PG-140D1/PGB140D1 (On-board SCSI)

TX150 S4 Internal Backup Device Connection
Wide ("1) / Backup Devices Connection
SCSI Ctrl U160 w/SCSI Cable (PG-129B/PGB129B)

("1) Wide Backup Device: PG-DT502 /PG-VX201

Internal HDD

SCSI/RAID Configuration

on board SCSI Controller (Wide)

RAID Configuration

PCI Bus

RAID Ctrl 0-Channel 128MB
PG-140D1
PGB140D1 (for CTO)

Max: 4 HDDs *1

HDD U320 10k 73GB hot plug 1"
PG-HDH71V
PGBHDH71V (for CTO)

HDD U320 10k 147GB hot plug 1"
PG-HDH41V
PGBHDH41V (for CTO)

HDD U320 10k 300GB hot plug 1"
PG-HDH31V
PGBHDH31V (for CTO)

HDD U320 15k 73GB hot plug 1"
PG-HDH75V
PGBHDH75V (for CTO)

HDD U320 15k 147GB hot plug 1"
PG-HDH45V
PGBHDH45V (for CTO)

*1. When onboard RAID controller is being used, the max number of mountable HDDs is 2.

Internal backup device

PCI Bus

SCSI Ctrl U160 w/SCSI Cable
PG-129B
PGB129B (for CTO)

One backup device can be mounted

Tape Drv DAT72 36GB internal
PG-DT502
PGBDT502 (for CTO)

Tape Drv VXA-2 80GB
PG-VX201

Internal DVD-RAM

Onboard IDE Controller

DVD-RAM Conversion kit (CD-ROM Drive -> DVD-RAM Drive)
PGBDVAU105 (for CTO)

Internal backup device (PRIMERGY SX10)

*PRIMERGY SX10 is available for rack install type.

PCI Bus

SCSI Ctrl U160
PG-128

SCSI Cable HDCI 1.5m
PG-CBLS001
SCSI Cable HDCI 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]

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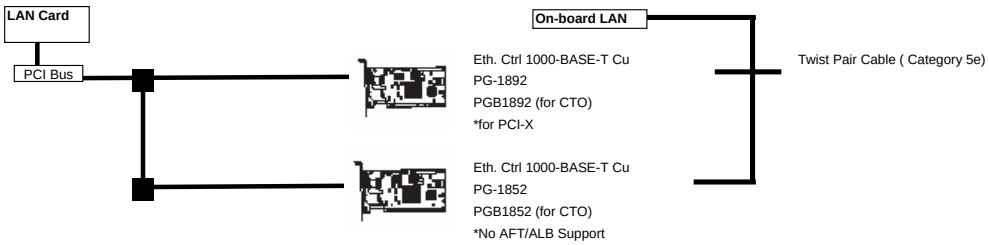

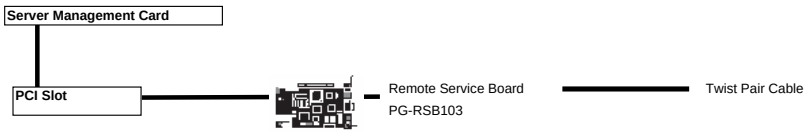

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