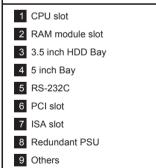
# **PRIMERGY**<sup>®</sup>

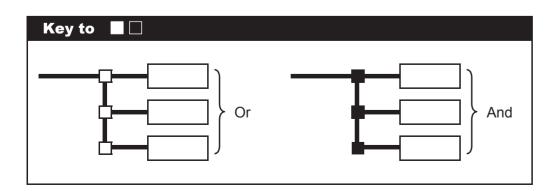
## PRIMERGY N800 Datacenter Server System Configuration Guide (Ver.2) (Jul / 2001)

PRIMERGY N800	2
Configuration of Clustering	8
Rackmount	9

#### Index

The numbers on the left hand side of each page correspond to the various options available with PRIMERGY as follows





### NOTES

#### PRIMERGY N800 (Windows®2000 Datacenter Server)

#### Features of Windows2000 Datacenter Server

The technical features of Windows2000 Datacenter Server include:

- Support for up to 64GB of real main memory
- 4nodes clustering
- Load distribution services (NLB Network Load Balancing Service)
- Efficient communication between systems (WSDP Windows Socket Direct Path)
- Process control
- Support for up to 32way SMP (Symmetric Multi Processing) systems

The table below shows a comparison of Windows2000 Server products:

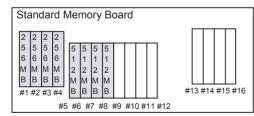
Function	Windows2000 Server	Windows2000	Windows2000
		Advanced Server	Datacenter Server
Processor limit	4	8	32
Memory extension	4GB	8GB	64GB
Network Load Balancing	No	Yes	Yes
Server Clustering	No	Yes (Max. 2nodes)	Yes (Max. 4nodes)
Job Object	Job Object API	Job Object API	Process Control Tool
Winsock Direct	No	No	Yes

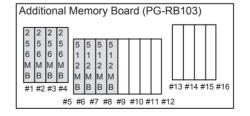
#### **Specification of PRIMERGY N800**

Туре		Rackmou	Int				
Product ID		PGTN8BHRD2	PGTN8BGRD2				
CPU	Processor	Pentium® III X	leon™				
	Frequency	7001	ИНz				
	Secondary cache	2MB	1MB				
	Number of CPUs	2 (up to	8)				
Memory	Standard	1GB (256MI	B x 4)				
available w	ith Maximum	32GB (1GB	x 32)				
Internal Ba	ys 5-inch	Two (one occupied b	by DVD-ROM)				
	CD-ROM/DVD-ROM	8/24X DVD-ROM (IDE)					
	HDD bay	1inch x4/Ho	tplug				
	Available HDD	9.1GB(10000rpm)/18.2GB(10000/18	9.1GB(10000rpm)/18.2GB(10000/15000rpm)/36.4GB(10000rpm)				
	Maximum	145.6GB (36.4GB x 4)					
Expansion	slot	PCI64bit 66MHz x4, PCI64bit 33MHz x 6					
SCSI Interf	ace	Internal: Ultra2 Wide SCSI x 1, External: Ultra2 Wide SCSI x 1					
RAID contr	oller	2 x Ultra160 (occupying one 64bit/33MHz PCI slot)					
Network		LAN(10/100 base TX) x 1 (occupyir	ng one 64bit/33MHz PCI slot)				
Dimension (mm)		445(W)x712(D)x312(H	I) Rackmount7U				
Weight		60kg (max.)					
Power cons	sumption	710W (max.)					
Power supp	oly	Three standard units (the thir	d unit is for redundant)				
Operating S	System	Windows2000® Datacenter Server	Operating System is bundled				

#### Mounting Additional Memory

A memory board with 16slots is standard equipment and up to 16GB memory can be mounted. When you add more than 16GB, an additional Memory Board (PG-RB103/PGBRB103) is required. When using two memory boards in N800, the same memory size must be mounted on each board.





#### PCI resource area

A part of address area as below is assigned for PCI resource, cannot be used.

Operating System	Mounted Memory Size	The area for PCI resource
	~3.8GB	No area for PCI resource
Windows®2000 Datacenter Server	3.8GB ~4.0GB	3.8GB ~4.0GB
[Maximum Memory Size:32GB*]	4.0GB ~32.0GB	3.8GB ~4.0GB

\*Up to 32GB Memory can be mounted in one N800.

#### Install Operating System

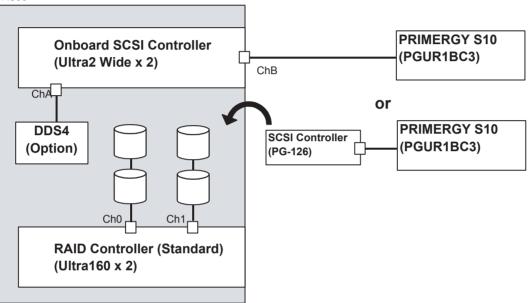
- Boot disk can be an external disk. In this case, the disk must be connected to PG-142B RAID Controller.
- Basically, installation should be done by "Installation and Startup Service". So please contact with your local sales representative.

#### Mounting devices

- In N800, there are four internal HDD bays (2bays/1ch x 2)
- N800 has one internal 5" bay in chassis for DDS4 (In case of SCSI connection, the DDS4 is available for daisy-chain connection with HDD)
- PRIMERGY S10 (Backup Cabinet) is available if " more then two backup devices" or "backup devices except for DDS4" are installed.

Configuration Chart

N800



## NOTES

#### Connection Matrix

	Connection of internal HDD and internal backup devices		SCSI	Ultra2 Wide A Ultra2 Wide B		Il Backup device/Internal HDD GY S10/Internal HDD	
Ir	nternal HDD				Backup dev	ice	
	Connection Pattern					is connected	Two devices are connected

		Connection Pattern			One device is c	onnected	Two devices	s are connecte	ed
Configuration	SCSI	Host	Cable	Internal HDD	In case that	Except for	Narrow	Wide	Narrow device
	Interface				DDS4 is	DDS4	device x 2	device x 2	and
					connected				Wide device
				Up to four HDDs can be		Onboard SCSI (Ultra2 Wide Bch)			
Array		Standard	Cable(X2)	installed	Onboard SCSI	PF	RIMERGY S1	0 (PGUR1BC	3)
Configuration	Ultra160	RAID Controller (Ch0/1)	(Standard	1) 9GB, 10,000rpm	(Ach)	SC	CSI Cable (PC	G-CBLS007/0	08/009)
			equipment)	2) 18GB, 10,000rpm			or		
				3) 18GB, 15,000rpm		SC	CSI Controller	r (PG-126)	
				4) 36GB, 10,000rpm		PF	RIMERGY S1	0 (PGUR1BC	3)
						SC	CSI Cable (PC	G-CBLS001/0	02/003)

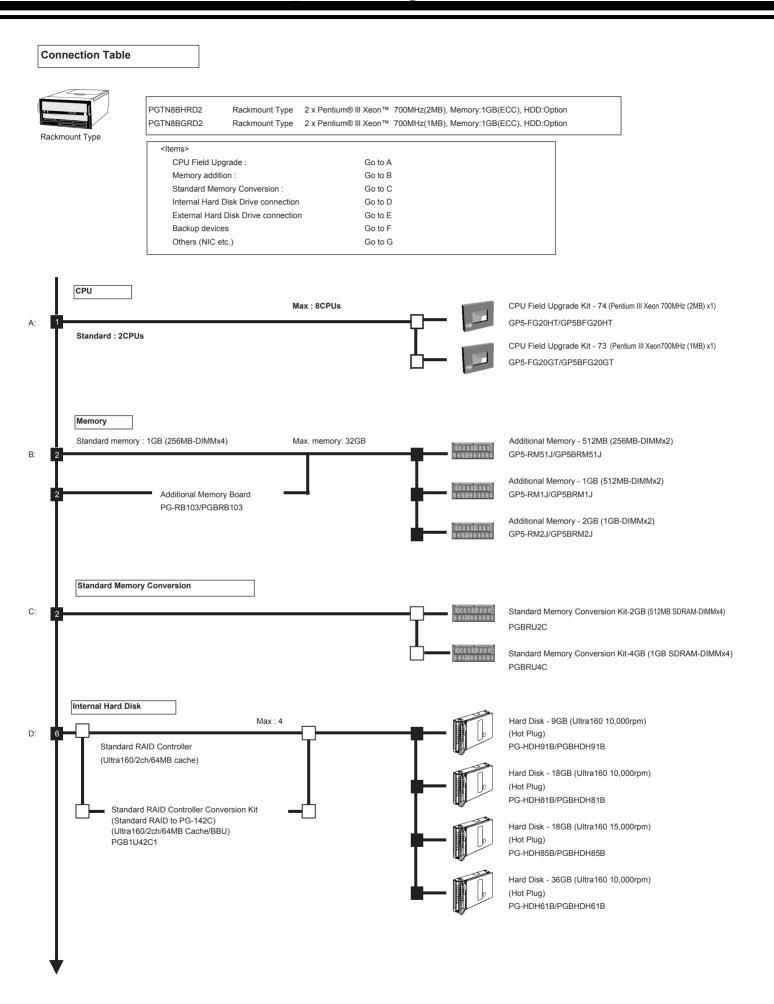
- In case of SCSI configuration (Up to four HDDs can be mounted), internal DDS4 can be connected to ChA of Onboard SCSI by daisy chain.

- when connecting RAID Controller with PRIMERGY S30, or SCSI Controller with Internal HDD, both SCSI Channel of Onboard SCSI Controller must be connected to Internal HDD.

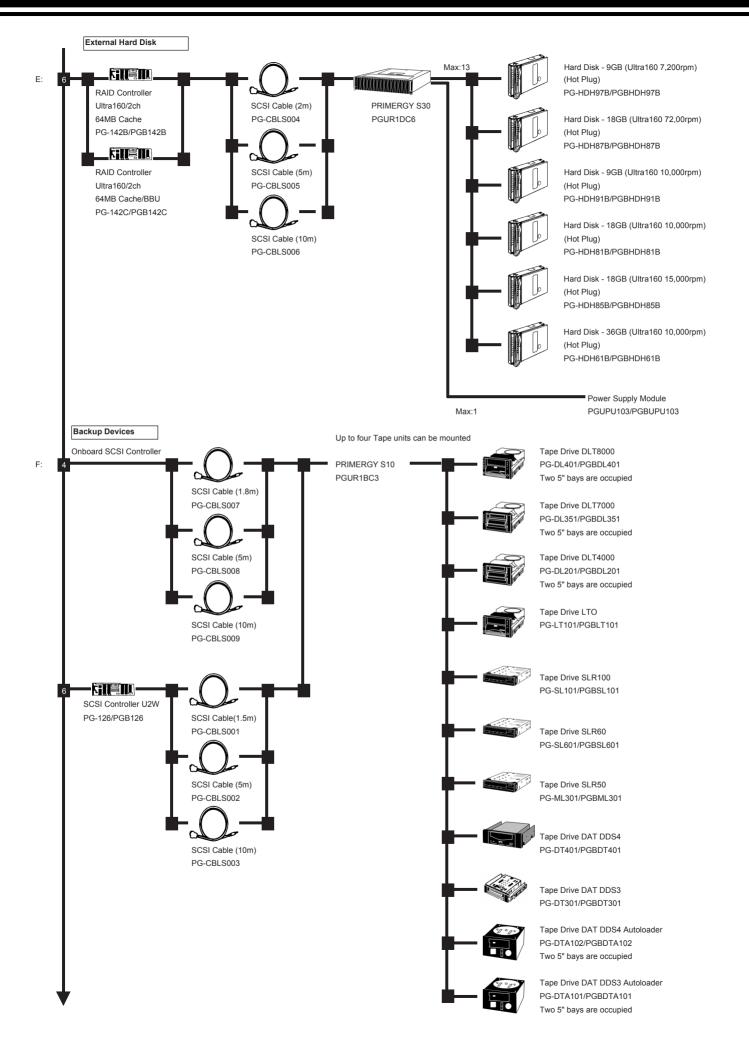
#### Mountable I/O options

#### N800

			Max		num		
Cards	Product ID	Bus	of c	ar	ds	Tota	REMARKS
SCSI Controller	PG-123	PCI64	4	٦	4	ן 1 1	For external disk array
(Ultra Wide Diff)							
SCSI Controller	PG-126	PCI64	2				
(Ultra2 Wide LVD)							
Fibre Channel Controller	PG-FC102	PCI64	4	٦			
RAID Controller	Standard	PCI64	1	٦	5	1	Mounted in PCI slot1
(Ultra160 LVD)	Equipment						
RAID Controller	PG-142B/C	PCI64	4				
(Ultra160 LVD)							
EthernetController	PG-188	PCI64	2		4	_	
(1000Base-SX)	PG-188	PC164	2		4	]	
EthernetController	Standard	PCI64	1				Mounted in PCI slot3
(100Base-TX)	Equipment						
EthernetController	PG-185	PCI64	2				
(100Base-TX)							
Remote Service Board	PGURSB101	PCI64	1	1			For Remote Management

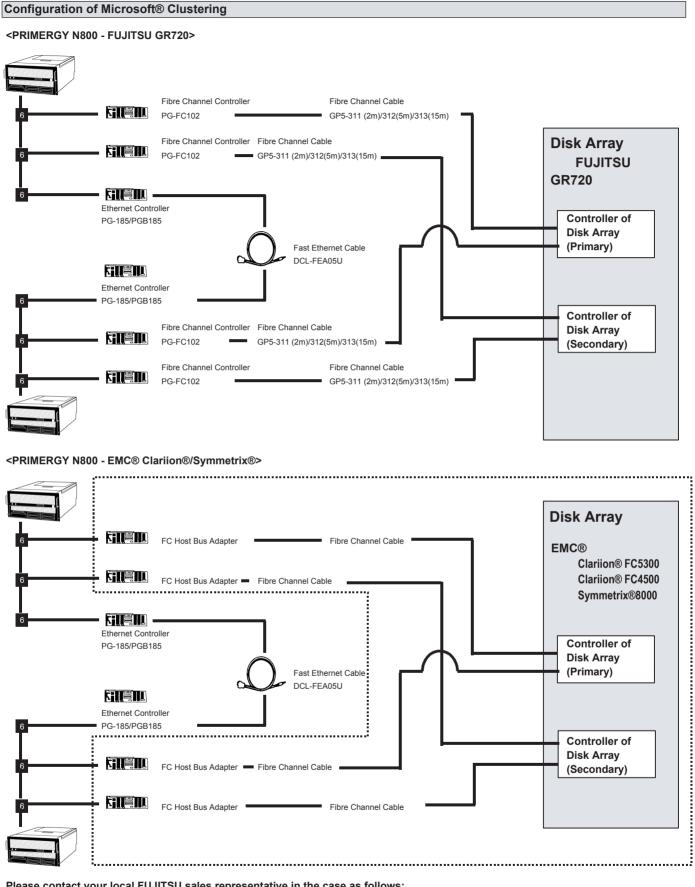


## System Configuration



# System Configuration

	Onboard SCSI Controller	Tape Drive DAT DDS4 PG-DT401/PGBDT401 Only one DDS4 can be mounted in §	5"bay	
G:	Others			Gigabit Ethernet Controller (1000Base-SX)) PG-188/PGB188
			95	Fast Ethernet Controller (100Base-TX) PG-185/PGB185
				Fibre Channel Controller PG-FC102
	Remote Service Boar PG-RSBOP2	d Kit B	95	Remote Service Board PGURSB101



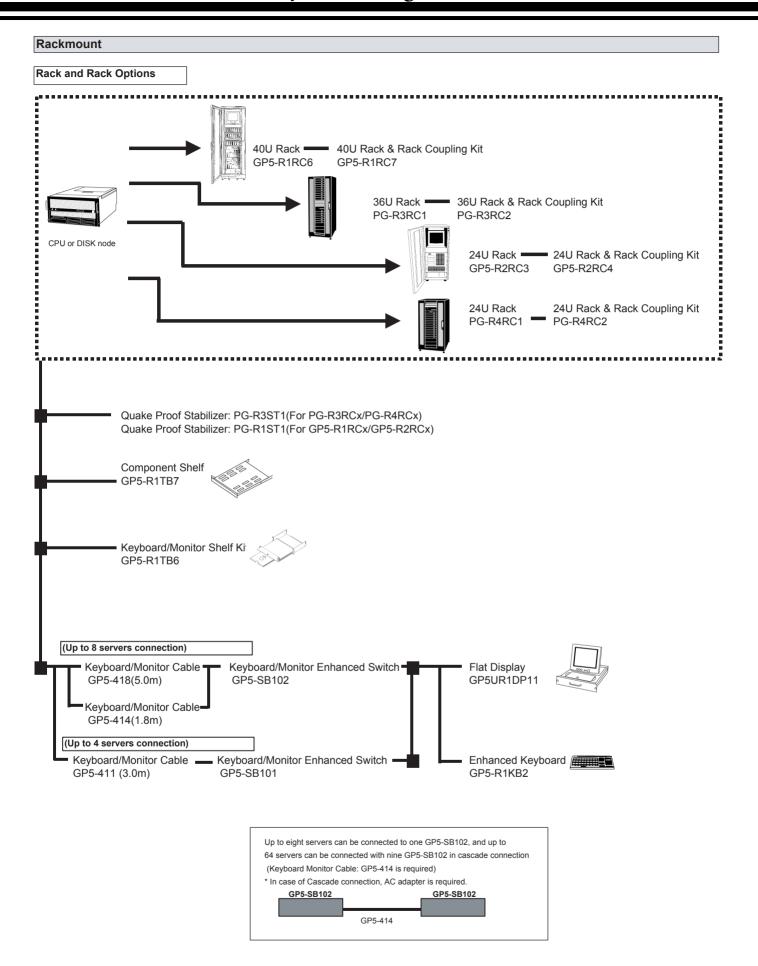
Please contact your local FUJITSU sales representative in the case as follows; - In case of connecting with EMC disk array, each component surrounded by:....: ("Fibre Channel Adapter with driver SW",

"Fibre Channel Cable", "Fibre Channel HUB") should be EMC's.

- As for the certified configuration of Windows2000 Datacenter Server.

- Four nodes Clustering.

## System Configuration



Product	Product ID	Remarks
CPU Field Upgrade Kit-74	GP5-FG20HT	PentiumIII Xeon(700MHz)/32KB+2MBcachex1,Placed on motherboard
	GP5BFG20HT	Includes one CPU
	[CTO option]	
CPU Field Upgrade Kit-73	GP5-FG20GT	PentiumIII Xeon(700MHz)/32KB+1MBcachex1,Placed on motherboard
	GP5BFG20GT	Includes one CPU
	[CTO option]	
Additional Memory 2GB	GP5-RM2J	SDRAM-DIMM (100MHz) 1024MBx2 (Buffered CL/2)
	GP5BRM2J	
	[CTO option]	
Additional Memory 1GB	GP5-RM1J	SDRAM-DIMM (100MHz) 512MBx2 (Buffered CL/2)
	GP5BRM1J	
	[CTO option]	
Additional Memory 512MB	GP5-RM51J	SDRAM-DIMM (100MHz) 256MBx2 (Buffered CL/2)
	GP5BRM51J	
	[CTO option]	
Standard Memory Conversion Kit-4GB	PGBRU4C	Standard Memory conversion 1GB to 4GB
	[CTO option]	
Standard Memory Conversion Kit-2GB	PGBRU2C	Standard Memory conversion 1GB to 2GB
	[CTO option]	
Additional Memory Board	PG-RB103	Additional memory board for mounting more than 16 DIMMs
	PGBRB103	
	[CTO option]	
Hard Disk Drive-36GB	PG-HDH61B	36.4GB Ultra160 Hotplug HDD <10000rpm> 1"height
	PGBHDH61B	<n800, and="" n400="" s30=""></n800,>
	[CTO option]	
Hard Disk Drive-18GB	PG-HDH85B	18.2GB Ultra160 Hotplug HDD <15000rpm>1"height
	PGBHDH85B	<n800, and="" n400="" s30=""></n800,>
	[CTO option]	
Hard Disk Drive-18GB	PG-HDH81B	18.2GB Ultra160 Hotplug HDD <10000rpm>1"height
	PGBHDH81B	<n800, and="" n400="" s30=""></n800,>
		available with PRIMERGY as follows
Hard Disk Drive-9GB	PG-HDH91B	9.1GB Ultra160 Hotplug HDD <10000rpm> 1"height
	PGBHDH91B	<n800, and="" n400="" s30=""></n800,>
	[CTO option]	
PRIMERGY S30	PGUR1DC6	Rackmount(3U) Hard Disk Node Ultra160 / 14 Hotplug HDD bays
(Storage Subsystem)		(1"x14 HDD/2ch) / Maximum capacity is 509.6GB (36.4GB x14)
		Redundant&Hotplug FAN(Std.)/PSU(Opt.)
		1. PG-142B/PG-142C/PG-143B - PG-CBLS004/PG-CBLS005/PG-CBLS006
		2. GP5-150/1501- PG-CBLS004/PG-CBLS005/PG-CBLS006
		<available hdd=""></available>
		PG-HDH61B/PG-HDH85B/PG-HDH81B/PG-HDH91B/PG-HDH87B/PG-HDH97B
		Only for Array configuration, CTO is available
Tape Drive DAT DDS4	PG-DT401	Internal DAT unit (DDS-4:20GB-40GB)
(DAT Unit)	PGBDT401	
	[CTO option]	
Tape Drive DAT DDS3	PG-DT301	Internal DAT unit (DDS-3:12-24GB)
(DAT Unit)	PGBDT301	*1 PRIMERGY S10 is required to mount
· · · ·	[CTO option]	
Tape Drive DAT DDS4 Autoloader	PG-DTA102	Internal DAT autoloader (DDS-4: 20GB-40GB) 6cassetes
(DAT Autoloader)	PGBDTA102	Two 5" bays are occupied
	[CTO option]	*1 PRIMERGY S10 is required to mount
	[ere option]	
Tape Drive DAT DDS3 Autoloader	PG-DTA101	Internal DAT autoloader (DDS-3: 12GB-24GB) 6cassetes
(DAT Autoloader)	PGBDTA101	Two 5" bays are occupied
	[CTO option]	*1 PRIMERGY S10 is required to mount
Tape Drive DLT4000		Internal DLT unit (DLT4000: 20GB-40GB) Two 5" bays are occupied
	PG-DL201 PGBDL201	
(DLT Unit)		*1 PRIMERGY S10 is required to mount
	[CTO option]	
Tape Drive DLT7000	PG-DL351	Internal DLT unit(DLT7000: 35-70GB) Two 5"bays are required and occupied
(DLT Unit)	PGBDL351	*1 PRIMERGY S10 is required to mount
	[CTO option]	
Tape Drive DLT8000	PG-DL401	Internal DLT unit(DLT8000: 40-80GB) Two 5"bays are required and occupied
(DLT Unit)	PGBDL401	*1 PRIMERGY S10 is required to mount
	[CTO option]	
Tape Drive LTO	PG-LT101	Internal LTO unit (LTO: 100-200GB)
(LTO Unit)	PGBLT101	*1 PRIMERGY S10 is required to mount
	[CTO option]	

Product	Product ID	Remarks
Tape Drive SLR50	PG-ML301	Internal Tape unit (SLR50: 25-50GB)
(Tape Unit)	PGBML301	*1 PRIMERGY S10 is required to mount
(Tape Only)	[CTO option]	
Tape Drive SLR60	PG-SL601	Internal Tape unit (SLR60: 30-60GB)
Tape Unit)	PGBSL601	*1 PRIMERGY S10 is required to mount
Tape Onic)	[CTO option]	
Tape Drive SLR100	PG-SL101	Internal Tape unit (SLR100: 50-100GB)
Tape Unit)	PGBSL101	*1 PRIMERGY S10 is required to mount
Tape Onic)	[CTO option]	
PRIMERGY S10	PGUR1BC3	Deskmount 211 F" how pade for N900/N400/L1000
	PGURIBUS	Rackmount 3U 5" bay node for N800/N400/H200
Backup Cabinet)		Up to four Tape units can be mounted
		<available backup="" devices=""></available>
		Occupy two bays : PG-DL201/PG-DL351/PG-DL401/PG-DTA101/PG-DTA102
		Occupy one bay: PG-SL101/PG-SL601/PG-ML301/PG-DT401/PG-DT301
	2017	*CTO is available
ower Supply Module	PGUPU103	Redundant PSU (500W) *Power Code is required
	PGBUPU103	<primergy s30=""></primergy>
	[CTO option]	*1 S30 is available on N800/N400/MS610/H200
Power Supply Module	PG-PU102	Redundant PSU (500W) *Power Code is required
	PGBPU102	<primergy n400="" s10=""></primergy>
	[CTO option]	*1 S10 is available on N800/N400/H200
0U Rack	GP5-R1RC6	19" 40U Locker , Front door, rear door, side panel, earthquake proof
		board ,blank panel is attached. Size(WxDxH)mm:600x900x2000
		<number for="" installation="" of="" required="" units=""></number>
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		Component shelf: 5U
		CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
		Color: Black
IOU Rack&Rack	GP5-R1RC7	
	GF5-KIKG/	19"40U Locker + connection metal fittings Front door,rear
Coupling Kit		door,concatenation frame,blank panel is attached. Color: Black
		COIOT: BIACK
36U Rack	PG-R3RC1	19" 2011 Lookor Front door roor door side nanel earthquake proof
OU RACK	PG-RSRC1	19" 36U Locker , Front door,rear door,side panel,earthquake proof
		board ,blank panel is attached. Size(WxDxH)mm:700x950x1800
		<number for="" installation="" of="" required="" units=""></number>
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		Component shelf: 5U
		CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
		Color: Black
6U Rack&Rack	PG-R3RC2	19"36U Locker + connection metal fittings Front door,rear
Coupling Kit		door,concatenation frame,blank panel is attached.
		Color: Black
4U Rack	GP5-R2RC3	19" 24U Locker , Front door,rear door,side panel,earthquake proof
		board, blank panel is attached. Size(WxDxH)mm:700x950x1267
	1	<number for="" installation="" of="" required="" units=""></number>
		······································
		N800: 711
		N800: 7U
		PGUR1DC6: 3U/PGUR1BC3: 3U
		PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard)
		PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U
		PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
		PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U
24U Rack&Rack	GP5-R2RC4	PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT)
	GP5-R2RC4	PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT) Color: Black
24U Rack&Rack Coupling Kit	GP5-R2RC4	PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT) Color: Black 19"24U Locker + connection metal fittings Front door,rear

Hardware List		
Product	Product ID	Remarks
24U Rack	PG-R4RC1	19" 24U Locker , Front door,rear door,side panel,earthquake proof board, blank panel is attached. Size(WxDxH)mm:600x900x1200 <number for="" installation="" of="" required="" units=""> N800: 7U PGUR1DC6: 3U/PGUR1BC3: 3U Keyboard/Monitor Shelf: 9U(for installation 15"CRT),1U(for installation Keyboard) Component shelf: 5U CRT/KB switch: Mounted at side of CRT (occupies same U as CRT) Color: Black</number>
24U Rack&Rack Coupling Kit	PG-R4RC2	19"24U Locker + connection metal fittings Front door,rear door,concatenation frame,blank panel is attached. Color: Black
Component Shelf	GP5-R1TB7	Shelf to fit peripheral device into 40U Rack, Table size:400(W)x500(D) Color: Black
Keyboard/Monitor Shelf Kit	GP5-R1TB6	Used to store display unit (CRT), a keyboard (KB), and a mouse on a rack. Color: Black
Keyboard/Monitor	GP5-SB101	Switch enables sharing of a set of CRT,keyboard,and mouse by two
Enhanced Switch	005 00400	or more servers (up to four servers).
Keyboard/Monitor Enhanced Switch	GP5-SB102	Switch enables sharing of a set of CRT,keyboard,and mouse by two or more servers (up to eight servers). Shared up to 64 servers in cascade connection.* AC adapter is required for cascade connection (Procured locally)
Keyboard/Monitor Cable	GP5-418	For connection with switch (For connection GP5-SB102) (5.0m)
Keyboard/Monitor Cable	GP5-414	For cascade connection between GP5-SB102 (1.8m)
Keyboard/Monitor Extension Cables	GP5-411	CRT/KB cable for connection Server with GP5-SB101, CRT cablex1,KB/Mouse cablex1 is attached
Enhanced Keyboard	GP5-R1KB2 GP5UR1DP11	87Key keyboard for Rackmountable type
Flat Display	GFSORIDFIT	Rackmountable LCD display with Keyboard, 2U height <gp5ur1dp1 +="" gp5-r1rk7=""></gp5ur1dp1>
SCSI Controller UW (SCSI Card)	PG-123 PGB123 [CTO option]	Ultra Wide HVD (High Voltage Differential)/1ch/SMART HDD is not supported/ Up to 40MB/s of synchronous transfer support <connector> - 68-pin connector for external SCSI - 68-pin connector for internal SCSI - 50-pin connector for internal SCSI <use> For connection with external Disk Array * SCSI cable is required.</use></connector>
SCSI Controller U2W (SCSI Card) RAID Controller U160 2Channels	PG-126 PGB126 [CTO option]	Ultra2 Wide(LVD)/1ch/SMART HDD/Up to 80MB/s transfer speed <connector> - 68-pin connector for external SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra2 Wide) - 68-pin connector for internal SCSI (Ultra Wide) - 50-pin connector for internal SCSI (Ultra Wide) <use> For connection internal backup device/PRIMERGY S10 RAID Controller, Ultra160/2ch/64MB cache/RAID level 0,1,5,6 (0+1)are supported</use></connector>
(RAID Controller 0160 2Channels (RAID Card)	PG-142B PGB142B [CTO option]	For internal/external array configuration
RAID Controller U160 2Channels	PG-142C	RAID Controller, Ultra160/2ch/64MB cache/Battery Backup/
(RAID Card)	PGB142C [CTO option]	RAID level 0,1,5,6(0+1) are supported For internal/external array configuration
		Convert Standard RAID Controller to PG-142C
Standard RAID Controller Conversion Kit	PGB1U42C1 [CTO option]	<n800></n800>
		<n800> External SCSI Cable [HDCI-HDCI] (1.5m) <connection></connection></n800>
Conversion Kit	[CTO option]	<n800> External SCSI Cable [HDCI-HDCI] (1.5m)</n800>

Product	Product ID	Remarks
SCSI Cable	PG-CBLS004	External SCSI Cable [VHDCI-VHDCI] (2m) <connection></connection>
		- RAID Controller and S30
SCSI Cable	PG-CBLS005	External SCSI Cable [VHDCI-VHDCI] (5m) <connection> - RAID Controller and S30</connection>
SCSI Cable	PG-CBLS006	KAID Controller and S30     External SCSI Cable [VHDCI-VHDCI] (10m)
SCSI Cable	PG-CBLS007	- RAID Controller and S30 External SCSI Cable [VHDCI-HDCI] (1.8m) <n800 400=""> <connection> - N800: Onboard SCSI Controller to S10/External SCSI devices</connection></n800>
SCSI Cable	PG-CBLS008	N400: PGBCBLS011 to S10/External SCSI devices  External SCSI Cable [VHDCI-HDCI] (5m) < N800/400>
		<connection> - N800: Onboard SCSI Controller to S10/External SCSI devices - N400: PGBCBLS011 to S10/External SCSI devices</connection>
SCSI Cable	PG-CBLS009	External SCSI Cable [VHDCI-HDCI] (10m) <n800 400=""> <connection> - N800: Onboard SCSI Controller to S10/External SCSI devices - N400: PGBCBLS011 to S10/External SCSI devices</connection></n800>
Fast Ethernet Cable	DCL-FEA05U	Fast Ethernet Cable for node-node connection in Clustering configuration (5m)
Fibre Channel Cable	GP5-311	Fibre Channel Cable (2m)
Fibre Channel Cable	GP5-312	Fibre Channel Cable (5m)
Fibre Channel Cable	GP5-313	Fibre Channel Cable (15m)
Gigabit Ethernet Controller	PG-188	1000BASE-SX/PCI64bit-66MHz/Driver is included
(Fibre)	PGB188 [CTO option]	*Fibre Channel cable is required : GP5-311/2m, GP5-312/5m, GP5-313/15m
Fast Ethernet Controller	PG-185 PGB185 [CTO option]	100BASE-TX/10BASE-T/PCI64bit/Driver is included *Twisted pair cable (category5:100BASE-TX/category3:10BASE-T) is required
Fibre Channel Controller	PG-FC102	1GB Optical, FC-AL/FC-Fabric, Duplex SC port for external device
Remote Service Board	PGURSB101	Optional remote server management board (PCI) CPU, External Interface (10BASE-T/RS232C), External PowerSupply (AC adapter - Option) are on the board
Remote Service Board Kit B	PG-RSBOP2	Optional Kit for mounting RSB ServerView for RSB CD-ROM, Connector, Power Code are included

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# FUJITSU LIMITED

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