

Notes on using PRIMERGY BX620 S4 Server Blade

Thank you for purchasing our product. We have additional information and some errors on the manual. We apologize for any inconveniences that this may cause. Before you start using it, please read carefully the additional notes described below.

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1. Updating of Management Blade firmware

When you install PRIMERGY BX620 S4 server blade into PRIMERGY BX600 S2 Blade Server System Unit, you may need to update firmware of management blade on it. Referring to Fujitsu PRIMERGY site at the following URL, confirm the appropriate version of firmware, and if necessary, download and update the firmware.

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

Note) BX620 S4 server blade may not work correctly with older version of management blade firmware.

2. About using Windows Server 2008 Hyper-V

Before applying Hyper-V technology to PRIMERGY BX620 S4 Server Blade, changing the setting in CPU Configuration Sub Menu of Advanced Menu from BIOS Setup Utility is required as follows.

- 1) Vanderpool Technology : Disabled -> Enabled
- 2) Execute Disable Bit : Disabled -> Enabled

3. Revision of "PRIMERGY BX620 S4 Server Blade User's Guide" (B7FH-5391-01EN)

Correction 2.3.5 Onboard Controller and Expansion Cards Supported by ServerStart (reference page: P.45)
Replace the following table for correcting the Automatic Expansion Card Driver Installation.

Table: Automatic Expansion Card Driver Installation

Name	Model	Bus
Onboard SAS (array) controller	-	PCI-E
Onboard LAN	-	PCI-E
Onboard VGA	-	PCI
SAS RAID Ctrl	PG-248EL	PCI-E
<u>SAS RAID Ctrl</u>	<u>PG-248FL</u>	<u>PCI-E</u>
<u>SAS RAID Ctrl</u>	<u>PG-248GL</u>	<u>PCI-E</u>
Eth. Ctrl 2x1Gbit PCI-E 1000-BASE-T Ip	PG-2861L	PCI-E
SCSI Ctrl U160 Ip	PG-1301L	PCI-X
1Gbit/s Ethernet I/O Module	PG-LND201	PCI-E
2Gbit/s FC I/O Module	PG-FCD102	PCI-X
4Gbit/s FC I/O Module	PG-FCD201	PCI-E

Correction 7.3.2 Available CPUs and Notes (reference page: P.177)
 Replace the following table for correcting the list of available CPU's.

Table: List of Available CPUs

Product name	Model	Remarks
Processor Xeon E5205 (1.86GHz)	PG-FG43G	1.86GHz/6MB, Dual core
Processor Xeon X5260 (3.33GHz)	PG-FG43H	3.33GHz/6MB, Dual core
<u>Processor Xeon X5270 (3.50GHz)</u>	<u>PG-FG43N</u>	<u>3.50GHz/6MB, Dual core</u>
Processor Xeon E5405 (2GHz)	PG-FG43J	2GHz/12MB, Quad core
Processor Xeon E5420 (2.50GHz)	PG-FG43K	2.5GHz/12MB, Quad core
Processor Xeon X5460 (3.16GHz)	PG-FG43L	3.16GHz/12MB, Quad core
<u>Processor Xeon X5470 (3.33GHz)</u>	<u>PG-FG43M</u>	<u>3.33GHz/12MB, Quad core</u>
Processor Xeon L5410 (2.33GHz)	PG-FG43P	2.33GHz/12MB, Quad core

Correction 7.4.2 Available Memory Modules and Notes (reference page: P.183)
 Replace the following table for correcting the list of available Memory Modules.

Table: List of Available Memory Modules

Product name	Model	Remarks
Memory Module-2GB	PG-RM2CJ	1GB-DDR2 DIMM x2
Memory Module-4GB	PG-RM4CJ	2GB-DDR2 DIMM x2
Memory Module-8GB	PG-RM8CJ	4GB-DDR2 DIMM x2

Correction 7.5.2 Available Expansion Card Slot Modules/Expansion Cards and Notes (reference page: P.189)
 Replace the following table for correcting the list of available expansion cards and corresponding slot modules.

Table: List of available expansion cards and corresponding slot modules

Product name (model)	Expansion card slot module		Remarks
	PG-CS103	PG-CS104	
SCSI Ctrl U160 Ip (PG-1301L)		-	PCI-X, Ultra160 SCSI, For connection with external backup devices
Eth. Ctrl 2 x 1Gbit PCI-E 1000-BASE-T Ip (PG-2861L)	-		PCI-Express, 1000BASE-T, Dual Port
SAS RAID Ctrl (PG-248EL)	-		PCI-Express, For connection with Storage Blade
<u>SAS RAID Ctrl (PG-248FL)</u>	=		<u>PCI-Express, For connection with Storage Blade</u>
<u>SAS RAID Ctrl (PG-248GL)</u>	=		<u>PCI-Express, For connection with Storage Blade</u>

|: Available
 -: Not available

Correction A Server Blade Specifications (reference page: P.262)
 Replace to the following table for correcting the Server Blade Specification.

Table: Server Blade Specifications

Item		Functions and Specifications	
Product Name		PRIMERGY BX620 S4 Server Blade	
Type		Diskless type	
Product ID		<u>PGUX624CA3</u>	<u>PGUX624EA2</u>
Chipset		Intel 5000P + ESB2	
CPU	Standard (frequency/cache/FSB)	Intel® Xeon® Processor E5205 (1.86GHz/6MB/1066MHz)	Intel® Xeon® Processor E5405 (2.33GHz/12MB/FSB1333MHz)
	Conversion kit(frequency/cache/FSB)	Intel® Xeon® Processor X5260 (3.33GHz/6MB/FSB1333MHz) <u>X5270 (3.5GHz/6MB/FSB1333MHz)</u> Intel® Xeon® Processor E5405 (2GHz/12MB/FSB1333MHz) E5420 (2.5GHz/12MB/FSB1333MHz) X5460 (3.16GHz/12MB/FSB1333MHz) <u>X5470 (3.33GHz/12MB/FSB1333MHz)</u>	-
	Number of multiplication	1 (Max. 2)	
Memory Module	Standard	<u>2GB</u> (DDR2-667 FBD <u>1GB DIMM x2</u>)	
	Redundancy	Memory mirror	
	Adding size	<u>2GB / 4GB / 8GB</u>	
	Maximum	32GB (4GB DIMM x8 slots)	
PCI slots	For expansion board	Standard: N/A, Option: PCI-X 64bit/133MHzx1, or PCI-Express (x8) x1	
	For PCI card	Standard: N/A, Option: PCI-X 64bit/133MHzx1, or PCI-Express (x4) x1	
Internal 2.5-inch hard disk drive		2 bays (hot-pluggable)	
	Adding size	73.4GB/146.8GB (10,025rpm, SAS), 73.4GB (15,000rpm, SAS)	
	Maximum	293.6GB (146.8GB x 2)	
CD/DVD drive		Type: DVD-ROM drive unit (USB external option) *1	
Floppy disk drive		Option (USB floppy disk drive) *1	
Onboard controller	Video	VGA chip: ATI ES1000 Video RAM capacity: 16MB Resolution: 640x480, 800x600, 1024x768, 1280x1024 Display colors: Differ depending on resolution and OS.	
	SAS	LSI 1068 (2 port use, SAS module, IME array function)	
	LAN	Broadcom BCM5715S (1Gbps, Dual port) x 3	
Security chip		-	
Internal I/O port	Video *2	1 (Analog RGB)	
	keyboard *2	1 (PS/2)	
	Mouse *2	1 (PS/2)	
	SAS	2	
	SerDes (LAN)	6 (1Gbps)	
	SerDes (LAN/FC)	2 (For expansion board, Max. 10Gbps)	
	Serial	1 (for system management)	
	I2C	1 (for system management)	
	USB	1 (USB 1.1)	
External I/O port		Display/USB expansion cable *3: Display x1, USB 2.0 x2	
Keyboard/Mouse/Display		Optional (Connect to the Chassis)	
Internal clock precision		± 2 to 3 minutes/month	
Input voltage (supplied from the Chassis)		DC 12V (During operation) / DC 5V (During standby)	

Table: Server Blade Specifications

Item	Functions and Specifications	
Power consumption/heating value	Max. 347W(Max. 1,250kJ/h)	Max. 240W(Max. 864kJ/h)
Dimensions (Unit: mm)	42 x 476 x 286 (W x D x H) (1 slot occupied in BX600 S3 Chassis)	
Weight	7.0kg	

*1: In this blade server system, at least 1 unit is required. DVD-ROM drive units have a CD-R/RW function but this function cannot be used to write to CD media.

*2: Connect to each keyboard/ mouse/ display connector of the CRT/KB cable (1 provided with the Chassis) that is attached with the Chassis (each Server Blade can switch and use).

*3: Connect the display/ USB expansion cable (1 included with the Chassis) to the Server Blade's front connector.

The specifications for this Server Blade may be changed or updated without any notice.

Correction B.1 CPU Specifications (reference page: P.264)

Replace to the following table for correcting the CPU Specification (Quad Core Processor)

Table: CPU Specifications (Dual Core Processor)

Item	Functions and Specifications		
Product name	Processor Xeon E5205 (1.86GHz)	Processor Xeon X5260 (3.33GHz)	Processor Xeon X5470 (3.5GHz)
Product ID	PG-FG43G	PG-FG43H	PG-FG43N
Number of core	2		
Clock frequency	1.86GHz	3.33GHz	3.5GHz
Internal secondary cache size	6MB		
Front side bus	1066MHz	1333MHz	

Correction B.1 CPU Specifications (reference page: P.264)

Replace to the following table for correcting the CPU Specification (Quad Core Processor)

Table: CPU Specifications (Quad Core Processor)

Item	Functions and Specifications				
Product name	Processor Xeon E5405 (2GHz)	Processor Xeon E5420 (2.5GHz)	Processor Xeon X5460 (3.16GHz)	<u>Processor Xeon X5470 (3.33GHz)</u>	Processor Xeon L5410 (2.33GHz)
Product ID	PG-FG43J	PG-FG43K	PG-FG43L	<u>PG-FG43M</u>	PG-FG43P
Number of core	4				
Clock frequency	2GHz	2.5GHz	3.16GHz	<u>3.33GHz</u>	2.33GHz
Internal secondary cache size	12MB				
Front side bus	1333MHz				

Correction B.2 Memory Specifications (reference page: P.265)

Replace to the following table for correcting the Memory Specifications.

Table: Memory Specifications

Item	Functions and Specifications		
Product name	Memory Module-2GB	Memory Module-4GB	Memory Module-8GB
Product ID	PG-RM2CJ	PG-RM4CJ	PG-RM8CJ
Component	1GB DDR2 667 FBDx2	2GB DDR2 667 FBDx2	4GB DDR2 667 FBDx2
Capacity	2GB	4GB	8GB
Clock frequency	667MHz		
Number of pins	240		