

PRIMERGY

RX300 S4 2WAY

Intel® Xeon® X5470 (3.33GHz)/X5460 (3.16GHz)/E5420 (2.50GHz)/E5405 (2GHz)
Intel® Xeon® X5270 (3.50GHz)/X5260 (3.33GHz)/E5205 (1.86GHz)

1GB (Max. 48GB) DDR2 SDRAM FB DIMM

2ports (1000BASE-T)

3.5" SAS HDD 6Bays (Max. 2.7TB)

PCI Express (x4) [x8] x6 (SAS Controller occupies one slot)
PCI-X(64bit/133MHz) x1



Best selling compact server for central service of your departments

PRIMERGY RX300 S4: A Dual Socket 2U Xeon based Rack Server, is designed to meet the objectives of an IT strategy aimed at reducing data center infrastructure costs. This is achieved by enhanced and clear system diagnostics that optimize management efficiency and allow you to maximize your investment.

PRIMERGY RX300 S4 boasts the capacity of a fully-featured departmental server in a compact rack design only 2U in height. Its breakthrough performance is achieved by a powerful design that incorporates leading-edge Intel® Xeon® X5470 (3.33GHz)/X5460 (3.16GHz)/E5420 (2.50GHz)/E5405 (2GHz), and Intel® Xeon® X5270 (3.50GHz)/X5260 (3.33GHz)/E5205 (1.86GHz) CPUs. Memory mirroring, by which one-half of the memory is set aside for redundancy, ensures continuity, with a maximum 48GB PC2-5300 (DDR2-667) FB-DIMM memory

installable, and with x8 DVD-ROM as standard. The server can be expanded to cover nearly any workload: up to 2.7TB(450.0GB x6) 3.5" SAS hard disk drives, and six free PCI slots for heavy I/O requirements.

To ensure high availability, PRIMERGY RX300 S4 provides redundant hot-plug power supply options, Hot-plug-able hard disk drives, and PCI Express cards. Special attention is the newly-available SAS array controller that improves RAID level 0/1/1+0/5/6.

PRIMERGY RX300 S4 is also quieter than ever, with noise reduced a further 6dB from previous units. Its speed, power and versatility makes it ideally suited to the demands of business-critical environments, running data bases, terminal services and business applications, as well as consolidation and virtual machine tasks.

Specifications

Type		Dual-Processor Rack Server
Model		3.5inch SAS model
CPU	Frequencies	Intel® Xeon® 5470 (3.33GHz) ^{*5} /5460 (3.16GHz) ^{*6} /E5420 (2.50GHz) ^{*7} /E5405 (2GHz) ^{*8} / X5270 (3.50GHz) ^{*9} /X5260 (3.33GHz) ^{*10} /E5205 (1.86GHz)
	Second-Level-Cache	12MB (Intel® Xeon® 5470 (3.33GHz)/X5460 (3.16GHz)/E5420 (2.50GHz)/E5405 (2GHz))/ 6MB (Intel® Xeon® X5270 (3.50GHz)/X5260 (3.33GHz)/E5205 (1.86GHz))
	Number of Processors	1 (max. 2)
	Number of Cores	4 per processor (Intel® Xeon® X5470 (3.33GHz)/X5460 (3.16GHz)/E5420 (2.50GHz)/E5405 (2GHz))/ 2 per processor (Intel® Xeon® X5270(3.50GHz)/X5260(3.33GHz)/E5205(1.86GHz))
Front-Side-Bus		1333MHz (Intel® Xeon® 5470 (3.33GHz)/X5460 (3.16GHz)/E5420 (2.50GHz)/E5405 (2GHz)/X5270 (3.50GHz)/X5260 (3.33GHz))/ 1066MHz (Intel® Xeon® E5205 (1.86GHz))
Chipset		Intel® 5000P
TPM (Trusted Platform Module)		standard (onboard) ^{*11} /
Memory	Standard	1GB (512MB ECC DDR2 SDRAM Fully Buffered DIMMx2, PC2 5300F) (SDDC(Single Device Data Correction) supported)
	Maximum ^{*1}	48GB (4GB ECC DDR2 SDRAM Fully Buffered DIMMx12, PC2 5300F) ^{*12}
Graphics Controller		incl. Remote Management Controller, VRAM : 8MB
Resolution ^{*2}		640x480/800x600/1024x768/1280x1024 dot
Internal Bays 3.5 inch HDD (SAS)	Number of Bays	6 (hot plug)
	Available HDD ^{*3*4}	3.5inch, SAS, 15krpm, 73.4GB 3.5inch, SAS, 15krpm, 146.8GB 3.5inch, SAS, 15krpm, 300.0GB 3.5inch, SAS, 15krpm, 450.0GB
	Maximum ^{*3*4}	2.7TB (450.0GB x 6)
	Internal Backup Device	Tape Drv DAT72 36GB internal w/Drive Cage is available as an option. (required 2 bays)
DVD-ROM		Max. 8 DVD-ROM/Max. 24 CD-ROM (SATA)
PCI Slots	PCI Express (x4) [x8]	6 : LowProfile PCI Express Card Only (SAS RAID Controller occupies one slot.) ^{*13 *14}
	PCI-X (64bit/133MHz) [3.3V]	1 : LowProfile PCI Card Only
RAID		standard (SAS RAID Ctrl, with RAID0/1/1+0/5/6 function)
SAS / SATA Interface		SAS x 8ports ^{*15}
FDD		- ^{*16}
Network Interface (onboard)		2 ports (1000BASE-T/100BASE-TX/10BASE-T)
Interfaces		Display (Analog RGB), Serial Port x 1(D-SUB 9pins) (2 when Serial Port is applied.) ^{*14} Parallel Port x 0(D-SUB 25pins) (1 when Parallel Port Option is applied.) ^{*15} Keyboard (PS/2type Mini DIN 6pins), Mouse (PS/2type Mini DIN 6pins), USB x 5 (ver. 2.0) (Internal : x1,External : x4)
Server Management Software		ServerView (Standard)
Remote Service function		standard (onboard, Remote Management Controller)
Power Supply	connector	1 port (100BASE-TX/10BASE-T)
	Voltage	AC 100-127V (50/60Hz)/AC 200-240V (50/60Hz)x1 (max. 2)
	Power Consumption	645W/2322kJ/h (max.)
	Redundant Power Supply	optional (hot plug)
Redundant Fan		standard (hot plug)
Dimensions (W x D x H (mm))		445 (483 incl. protruding parts(W))x720 (792 incl. protruding parts(D)) x 88 (2U)(H)
Weight		30kg (32.5kg incl. rack rails)(max.)
Environmental Conditions		Temperature10-35°C/Humidity 20-80% (non condensing)
OS Support		Windows Server® 2008 Standard (32-bit)/Windows Server® 2008 Enterprise (32-bit) Windows Server® 2008 Standard (64-bit)/Windows Server® 2008 Enterprise (64-bit) Windows Server® 2003 R2, Standard Edition (SP2)/Windows Server® 2003 R2, Enterprise Edition (SP2) Windows Server® 2003, Standard Edition (SP2)/Windows Server® 2003, Enterprise Edition (SP2) Windows Server® 2003 R2, Standard x64 Edition (SP2)/Windows Server® 2003 R2, Enterprise x64 Edition (SP2) Windows Server® 2003, Standard x64 Edition (SP2)/Windows Server® 2003, Enterprise x64 Edition (SP2) Red Hat Enterprise Linux ES (v.4 for x86)/Red Hat Enterprise Linux AS (v.4 for x86) Red Hat Enterprise Linux 5 (for x86) ^{*17} Red Hat Enterprise Linux ES (v.4 for EM64T)/Red Hat Enterprise Linux AS (v.4 for EM64T) Red Hat Enterprise Linux 5 (for Intel64) ^{*17}

*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=1000³ byte and 1TB=1000³ byte.

*4 : All internal HDD must be configured as RAID structure.

*5 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon X5470 (3.33GHz) is available for upgrading to Intel® Xeon® X5470 (3.33GHz).

*6 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon X5460 (3.16GHz) is available for upgrading to Intel® Xeon® X5460 (3.16GHz).

*7 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon E5420 (2.50GHz) is available for upgrading to Intel® Xeon® E5420 (2.50GHz).

*8 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon E5405 (2GHz) is available for upgrading to Intel® Xeon® E5405 (2GHz).

*9 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon X5270 (3.50GHz) is available for upgrading to Intel® Xeon® X5270 (3.50GHz).

*10 : CPU Conversion kit: Xeon E5205 (1.86GHz) -> Xeon X5260 (3.33GHz) is available for upgrading to Intel® Xeon® X5260 (3.33GHz).

*11 : TPM is available for BitLocker™ Drive Encryption of Windows Server® 2008.

*12 : This is the maximum memory capacity when Memory Expansion Board is applied.

*13 : When Serial Port is applied, PCI Express slot x 1 is occupied.

*14 : When Parallel Port Option is applied, PCI Express slot x 1 is occupied.

*15 : Only 6 ports are available.

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

It is necessary to procure USB-FDD separately.

*17 : Total number of cores of CPU(s) should be four or more for using VM (Virtual Machine) function.

* Noise level is 52dB.

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Fourth edition, March 2009

FUJITSU LIMITED

