Data Sheet

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FUJITSU SIEMENS COMPUTERS

PRIMERGY Econel 200

Dual Xeon™ Processor Server –
Economical and easy data security combined
with Dual processor performance

PRIMERGY Econel servers are the best choice when funds are limited but server availability, performance, and uncomplicated operation are important. PRIMERGY Econel only uses "server-certified components" developed for round-the-clock operation. In addition, a server must ensure that only the right data is delivered to your client network. PRIMERGY Econel servers ensure data security through ECC memory protection and integrated RAID disk mirroring.

The latest processor generation combined with innovative air flow cooling technology ("Cool-safe™") assures a long life and the highest possible performance at work. And as your business grows, so do our PRIMERGY Economy Server, providing plenty of headroom for expansion so that you benefit longer from your investments in PRIMERGY tower servers.

Uncomplicated operation is also important: PRIMERGY Econel "easy change" design principles make it possible for you to install or replace components such as memory, drives, and devices without technical expertise. And of course, the renowned and dependable PRIMERGY quality is ensured by applying the full set of PRIMERGY testing procedures to the Econel servers.

PRIMERGY Econel 200

The PRIMERGY Econel 200 provides an inexpensive platform for those who demand for powerful dual Xeon processor of the latest generation, combined with reliable data security features. Starting with one, server optimized, Xeon processor grants performance headroom for growing business demands and extended life cycle.
The PRIMERGY Econel 200 delivers performance, ease of use and expandability at an interesting price level.
Proven server features ranging from ECC, memory scrubbing and Chipkill™ support to RAID 1 (mirroring) controller onboard protect your data against loss and falsification.
With the serial-ATA or SCSI hard disk "easy change" technology, you have the option of configuring double disk security at low cost.
The enclosed delivered PRIMERGY ServerView Suite offers the easiest way to get the system ready for your operation. All installation items are guided step by step for up to date and easy configuration.

Key Features	Benefits
■ Latest Intel Xeon™ dual processor generation with 1 MB or 2 MB SLC, up to 4 SATA or SCSI "easy change" hard disks, DDR1 SDRAM PC2700, PCI Express I/O slot	■ High performance thru latest dual processor and SATA or SCSI technology with low running cost in operation ■ Power and capacity to grow with your business demands
■ mirror (RAID 1) for 2 SATA disks integrated, ECC (Error correction code), memory scrubbing, Chipkill support for high data availability ■ SCSI variant offers RAID 1 (IME) for up to 4 hard disks ■ PRIMERGY ServerView Suite	■ Server proven components and data safety from memory to disk, easy to install and manage ■ More flexibility concerning SATA or SCSI option

Type	Dual Processor Economy Server
System board	D2020
Chipset	Intel® E7320
Processors	Intel® XEON™
Frequencies (GHz)	2.8 GHz; 3.4 GHz
Front-Side-Bus	800 MHz
Second-Level-Cache	1 Mbyte (2.8) oder 2 Mbyte (3.4)
Memory (modules)	512 Mbyte - 4 Gbyte ECC PC2700 DDR1-333 SDRAM; (512 Mbyte, 1 Gbyte); memory scrubbing and Chipkill™ support Mix and match possible; onboard components limit the available memory
Flash-EPROM	
Local BIOS update from floppy disk; Remote BIOS update via LAN (Global Flash tool).	
Interfaces	
Serial	1 x RS-232-C (9-pin)
Keyboard, mouse	2 x PS/2
USB	2 x USB 2.0 (2x rear side, 2x internal)
LAN	1 x RJ45
Graphics	1 x VGA
Onboard controller**	
IDE	1 Port Fast IDE ATA100; 2 channel for CD-ROM and other accessible drives
Intel® 6300ESB Chipset	LSI SATA SW-RAID 0, 1 (for up to 2 x HDD`s)
LAN Broadcom 5705E	Fast Ethernet 10/100/1000 Mbit
Graphics controller	ATI Rage XL 8 MB onboard
PCI Controller **	**SCSI variant**
SCSI Controller LSI 20320A-R	1-channel Ultra320 SCSI for internal HDD´s with RAID 1 (Integrated Mirroring Enhanced also for odd numbered HD´s for Windows and Linux)
PCI Controller **	**optional (SATA-variant)**
SATA-RAID controller (Promise FastTrak TX4)	RAID Level 0, 1 and 10 for 3 - 4 SATA HDD´s
Floppy disk drive	3.5 inch, 1.44 Mbyte
DVD-ROM drive	5.25 inch, IDE
Hard disk drive	Up to 4 x 160, 250 Gbyte (SATA) easy change or 73, 146, 300 Gbyte (SCSI) easy change
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
I/O Slots	1 x PCI-Express (1x4 (phys. x8)) 2 x PCI 32-bit / 33 MHz (1 x PCI-32 slot occupied with SATA RAID controller for 3 – 4 HDD´s) 2 x PCI-X 64-bit / 66 MHz (1 x PCI-X occupied by SCSI variant)
Drive bays	
for hard disks	4 x 3.5/1-inch, non hot-plug SATA or SCSI
for accessible drives	3 x 5.25/1.6-inch free plus 1x 3.5/1-inch FD as standard
Electrical values	
Power supply	Standard
Output power	560 W (600)
Rated voltage range	100 - 240V
Rated frequency	50 - 60Hz
Max. rated current	100 - 240V / 5 - 2.5 A
AC output	100 - 240V / 2 A
Rated current in basic configuration	100 - 240V / 1.5 - 0.6A
Active power	453 W
Apparent power	473 VA
Heat emission	1631 kJ/h (1546 btu/h)

Temperature/ noise/ dimensions/ weight	
Ambient temperature	10°C - 35°C (to IEC 721)
Sound power L_{WAd}	<= 6.0 B (ISO 9296)
sound pressure LpAm (+/- 4dB)	<= 45 dB (A) (ISO 9296)
Dimensions (HxWxD) mm	444 x 205 x 560
Weight (kg)	approximately 21 - 28
Compliance with Norm and Standards	
Product safety	
Global	IEC 60950
Europe	EN 60950
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
Electro magnetic compatibility	
Europe	EN 55 022 class B, EN 55024, EN61000-3-2 / -3
USA / Canada	FCC class A
Declaration of conformity	
Europe (CE)	89/336/EWG (EMV); 72/23 EEC (LVD)
North America	FCC Class A
Approvals	
Product safety	
Global	CB
Europe	CE
USA / Canada	CSA_{US} / CSA_C
There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request	
Supported operating systems	
Microsoft: Windows 2000 Server; Advanced Server Microsoft: Windows 2003 Standard; Enterprise Edition Microsoft: Windows 2003 Web Edition; SBS* SUSE: Linux ES 8; ES 9 (x86) Red Hat: EL 2.1, 3 and 4 for x86	
* No application support **For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
Server Management (see separate data sheets)	
Standard	PRIMERGY ServerView Suite; PDA, OS watchdog