Data sheet • Hardware Product • Server

PRIMERGY B210
Dual-Processor Server



The Dual-Processor Workgroup Server
The powerful system for your team

The PRIMERGY B210 is unique with its flexibility for usage as a tower or for integration in 19-inch Rack cabinets. With the efficient SCSI or reliable hot-plug RAID hard disks variant, the PRIMERGY B210 provides an optimal usage in any case.
The PRIMERGY B210 Workgroup Server in particular is suitable for all the different tasks within that segment. The scalability of processors, main memory and hard disks provide a perfect adaptation base for the decided solution with growing demands. All these features establishes the PRIMERGY B210 as an ideal platform for

- Intranet/Internet computing,
- communication services, or
- as a application server in branches and small companies.

Hardware Description

The PRIMERGY B210 features Pentium III processors in their basic units. The processors have a clock rate of 1 GHz, with a 133 MHz front side bus. For the PRIMERGY Server B210 exclusively Intel Pentium® III processors with 256 Kbyte ECC-protected second-level cache are used.
The main memory with 2 Memory banks each with 2 slots and the usage of the 1 Gbyte SDRAM modules can be expanded up to 4 Gbyte SDRAM. The entire memory is ECC-protected. When accessing memory data, 1-bit errors are detected in the main memory and automatically corrected.

The Intel 10/100+ network card is already integrated onboard in the PRIMERGY B210. The LAN card is compatible with Magic Packet Support which is particularly significant in terms of the wake-on-LAN function (switch on via the network).
The PRIMERGY B210 provides five slots for PCI 32-bit and two slots for PCI 64-bit expansion modules.
PRIMERGY B210 can be used both as a tower and as a 19-inch rack variant. Floor standing and rack installation kits are also available providing easy, rapid conversion in both directions at a later date.
There are three bays for externally accessible drives. One externally accessible bay is occupied as standard by the CD-ROM drive, a second by the floppy disk drive.
For mass storage devices the PRIMERGY B210 provides a “hot-plug RAID enabled” SCSI infrastructure. There are 4 bays (1-inch high) for corresponding hard disks with 18 and 36 Gbyte capacity. By extending the configuration with a released RAID controller, the hard disks are fully hot-plug capable and can be organized in a RAID array. The system delivery includes the PRIMERGY **easy-Mirror™**software, which provides the mirroring (RAID level 1) of internal hard disks.
Special attention has been paid to thermal management. As such, the system fans and power supply fans provide temperature-dependent control. To this end a configurable fault alarm has already been implemented in the BIOS. A two-stage preventing program for fan problems considerably increases the working life of the system.

Data Sheet

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Technical data PRIMERGY B210

Type	Dual Processor Workgroup Server
System board	
Processor	Intel Pentium® III 1 GHz
Chipset	Serverworks Champion LE 3.0
Clock speed (MHz) cache bus / host bus	1 GHz/133
First-Level-Cache	32 Kbyte
Second-Level-Cache	256 Kbyte
RAM	128 MB - 4 GB SDRAM with ECC
Bus system	PCI
Flash-EPROM	BIOS-update from FD / Modem
Interfaces	2 x RS-232-C (serial, 9-pin) 1 x Centronics (parallel, 25-pin, EPP/ECP compatible) 2 x PS/2 (keyboard and mouse), 4 x USB (2 x external, 2 x intenal) 1x LAN (RJ45) 1x Graphics (VGA 15 pin) 2 x SCSI 68 pin onboard (internal) Symbios 53 C1010 (160 MB/s)
Drive controller onboard	
SCSI	2 channel Ultra160 SCSI
IDE	fast IDE ATA 66
Graphics processor	ATI RAGE-XL 4 MB onboard
Network Adapter	Intel 10/100+ onboard
Floppy disk drive	3.5 inch, 1.44 Mbyte
CD-ROM drive	5.25 inch IDE CD-ROM or DVD-ROM
Hard disk drives	
Net capacity	18/36/73 Gbyte (Ultra160 SCSI)
Slots	5 x PCI 32, 2 x PCI 64
Drive bays	
for hard disks	4 x 3.5 inch (1 inch high), for standard or hot-plug SCSI (in slide-in chassis)
for accessible drives	2 x 5.25 inch (1.6 inch high), one of which is occupied by a CD-ROM drive 1 x 3.5 inch (1 inch high), occupied by a floppy disk drive
Electrical values	
Power supply	250 W (output power) 392 VA (apparent power) 380 W (max. effective power) 1.704 A (max. mains current)
Rated AC voltage	100-125 / 200-240 V
Frequency	50-60 Hz
Heat dissipation	1370 KJ/h
Additional mechanical On/Off switch	

Temperature/Noise/Dimension/Weight	
Ambient temperature	15°C – 35°C (to IEC 721)
Sound pressure level LpA	< 42 dB(A) (to ISO 9296) in standard configuration
Dimension (H x W x D)	428 x 204 x 460 mm
Rack mount	5 height units (U)
Weight	ca. 14-28 kg (dependent on configuration)

Compliance with Norm and Standards	
Product safety	
Global	IEC 60950
Europa	EN 60950
USA / Canada	UL 1950, CSA 22.2 No. 950
Electro magnetic compatibility	
Europe	EN 55 022 class A, EN 55024, EN61000-3-2 / -3
Taiwan	-
Japan	-
Australia / New Zealand	-
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	-
Germany	GS
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 (e.g. for Canada and USA, East European countries, Norway), can be applied for on request.

Available Operating systems and Software

MS Windows NT 4.0 Workstation and Server;
MS Windows NT 4.0 Server Enterprise Edition;
Microsoft Windows 2000 Server;
Microsoft Windows 2000 Advanced Server;
Microsoft Windows XP Professional;
Novell NetWare 5.1;
Open UNIX 8 and OpenServer 5
Linux (SuSE + Red Hat)

For supported hardware adapters (like SCSI, LAN, RAID controllers), please refer to the corresponding system configurator.

Server Management	
Standard	ServerStart and ServerView
Optional	RemoteView with IDE Chip disk and RemoteView Service Board
References	(HCL = Hardware Compatibility List)
Microsoft software products	HC-test and HCL entry
Novell	Yes; tested and approved
Open UNIX 8	Entry in Caldera HCL
OpenServer	Entry in Caldera HCL
SuSE Linux	Entry in SuSE-HCL
Red Hat Linux	Entry in Red Hat-HCL

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