PRIMERGY Econel 100
Mono socket Economy Server
Data security for smaller budgets

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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, thus providing lower running costs than with a PC – and all that at a price level rivaling that of a PC! 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. Three PCIe slots offer connectivity for future "High Speed" components. With its particularly small noise it can be set up also in offices in the nearness of workplaces.

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.

PRMERGY Econel 100

PRIMERGY Econel 100 provides a platform for those who demand a powerful mono socket server of the latest generation combined with reliable data security features. Superb power reserves through newest Intel® Pentium® D processor, each core with 2.80 GHz, 2x 1 MB SLC, 800 MHz FSB. Also Celeron D 346 and Pentium 4 631 and 641 CPUs are available. The new Intel® Pentium® D (Dual-Core) processor increases the efficiency with simultaneous execution of several applications and e.g. the parallel download of mass data. The Intel® E7230 chipset is supporting also EM64Technology.
Proven server features ranging from ECC memory to RAID 1 (mirroring) controller onboard protect your data against loss and falsification. With the serial-ATA 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 processor generation, onboard RAID for up to 4 SATA easy change hard disks, DDR2 SDRAM PC2-4200, PCI-Express I/O slots	■ High performance thru latest technology with low running cost in operation
■ Celeron D, Pentium 4 or Pentium D CPUs ■ The Intel® E7230 chipset is supporting EM64Technology.	■ Choose and pay only the power your applications need ■ Secure your investment
■ Dual-Core processor, provides two execution cores in one processor socket	■ Allowing the platform to do more in less time, IT departments can consolidate applications and get higher efficiency out of your IT.
■ mirror (RAID 1) for disks integrated with SATA, ECC (Error correction code), PRIMERGY ServerView Suite	■ Server proven components and data safety from memory to disk, easy to install and manage
■ Sound reduction by thought out ventilation concept	■ Absolutely quiet system, thus optimized for use in offices

Type	Mono Socket Economy Server
System board	D2179
Chipset	Intel® E7230
Processors	Intel® Celeron D / Pentium 4 / Pentium D
Frequencies (GHz)	346 (3.06) / 631 (3.0), 641 (3.2) / 820 (2.8)
Front-Side-Bus	533 MHz / 800 MHz
Second-Level-Cache	256 Kbyte / 2 Mbyte / 2x 1 Mbyte ECC
Memory (modules)	

512 Mbyte - 8 Gbyte ECC PC2-4200 DDR2 SDRAM;
(512 Mbyte, 1 Gbyte, 2 Gbyte)
Mix and match possible; with dual channel operation better performance (2 capacity equal modules necessary), Single channel (1 module) configuration possible;

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)
Centronics (parallel)	1 x 25-pin, EPP/ECP compatible
Keyboard, mouse	2 x PS/2
USB	6 x USB 2.0 (4 x rear side)
LAN	1 x RJ45
Graphics	1 x VGA (15-pin)
Onboard controller**	
IDE	1 Port Fast IDE (ATA) 2x ATA-100; (for CD-ROM and other accessible drives)
Intel® FW82801FR chipset	RAID 0, 1, 10 (LSI) (for up to 4 x easy change SATA HDD)
Broadcom LAN BCM5751	Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server)
Graphics	ATI Rage XL
Floppy disk drive	3.5 inch, 1.44 Mbyte, optional
DVD-ROM drive	5.25 inch, IDE
Hard disk drives (SATA)	Up to 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
I/O Slots	3 x PCIe (1x1; 1x4; 1x8) 4 x PCI 32-bit / 33 MHz
Drive bays	
for hard disks	4 x 3.5/1-inch
for accessible drives	2 x 5.25/1.6-inch 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch FD as option
Electrical values	
Power supply	Standard
Output power	300 W
Rated voltage range	100 - 240V
Rated frequency	50 - 60Hz
Max. rated current	100 - 240V / 7.5 - 3.5 A
AC output	100 - 240V / 3 - 1.5 A
Rated current in basic configuration	100 - 240V / 1.5 - 0.6A
Active power	216 W
Apparent power	227 VA
Heat emission	778 kJ/h (737 btu/h)

Temperature/ noise/ dimensions/ weight	
Ambient temperature	10°C - 35°C (to IEC 721)
Declared noise in according with ISO 9296	idle / operating
Sound power L_{WAd}	4.3 B / 4.5 B (1 Bel = 10 Decibels)
Sound pressure L_{pAm}	24 dB(A) / 27 dB(A)
Dimensions (HxWxD)	385 x 205 x 505 (mm)
Weight	approximately 15 -19 kg
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 compatility	
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 2003 Server; Standard; Web Edition
Microsoft: Windows 2003 Server; Standard x64 Edition
Microsoft: Windows SBS* 2003 Standard
Microsoft: Windows 2000 Server
SUSE x86 SLES 9; SUSE EM64T SLES 9;
Red Hat x86 EL 3.0 / EL 4.0
Red Hat EM64T EL 4.0

* 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