

## PRIMERGY Econel 50 Mono Processor Server – Data security for smaller budgets

Issue January 31, 2005

Pages 2

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.

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 50

PRIMERGY Econel 50 provides a platform for those who demand a powerful mono processor of the latest generation combined with reliable data security features.

Proven server features ranging from ECC memory to RAID 1 (mirroring) onboard protect your data against loss and falsification. With the serial-ATA hard disk RAID 1 technology, you have the option of configuring double disk security at low cost for up to four configurable SATA “easy change” hard disks.

A focal point in the development of the PRIMERGY Econel 50 is its extremely quiet operation. The result of our work is a server that ranks -- without any performance restrictions -- among the most silent tower servers on the market.

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
<ul style="list-style-type: none"> <li>■ Latest Intel processor generation, onboard RAID for up to 4 SATA easy change hard disks, DDR2 SDRAM PC2-4300, PCI Express I/O slots</li> </ul>	<ul style="list-style-type: none"> <li>■ High performance thru latest technology with low running cost in operation</li> </ul>
<ul style="list-style-type: none"> <li>■ mirror (RAID 1) for disks integrated with SATA, ECC (Error correction code), PRIMERGY ServerView Suite</li> </ul>	<ul style="list-style-type: none"> <li>■ Server proven components and data safety from memory to disk, easy to install and manage</li> </ul>
<ul style="list-style-type: none"> <li>■ Sound pressure level was reduced by 15 dB</li> </ul>	<ul style="list-style-type: none"> <li>■ Absolutely silent system due to new cooling concept</li> </ul>

<b>Type</b>	Mono Processor Economy Server
<b>System board</b>	D1859
Chipset	Intel® 7221
Processors	Intel® Celeron / Pentium 4
Frequencies (GHz)	335J (2.8) / 530J (3.0), 540J (3.2)
Front-Side-Bus	533 MHz / 800 MHz
Second-Level-Cache	256 Kbyte ECC / 1 Mbyte ECC
<b>Memory (modules)</b>	
256 Mbyte - 4 Gbyte ECC PC2-4300 DDR2 SDRAM; (256, 512 Mbyte, 1 Gbyte) Mix and match possible; with dual channel operation better performance (2 capacity equal modules necessary), Single channel (1 module) configuration possible; Onboard components limit the available memory depending on configuration.	
<b>Flash-EPROM</b>	
Local BIOS update from floppy disk; Remote BIOS update via LAN (Global Flash tool).	
<b>Interfaces</b>	
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
<b>Onboard controller**</b>	
IDE	1 Port Fast IDE ATA100; 2 channel for CD-ROM and other accessible drives
Intel® FW82801FR chipset	RAID 0, 1, 10 (LSI) (for up to 4 x SATA HDD)
LAN	Fast Ethernet 10/100/1000 Mbit
Broadcom 5751	
Graphics	implemented in onboard chipset
<b>Floppy disk drive</b>	3.5 inch, 1.44 Mbyte
<b>DVD-ROM drive</b>	5.25 inch, IDE
<b>Hard disk drive</b>	Up to 4 x 80, 160, 250 Gbyte (SATA) easy change, non hot-plug
1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary.	
<b>I/O Slots</b>	2 x PCI-E (1x1; 1x8) 5 x PCI 32-bit / 33 MHz
<b>Drive bays</b>	
for hard disks	4 x 3.5/1-inch, non hot-plug SATA
for accessible drives	2 x 5.25/1.6-inch free plus 1 x DVD/CD/ CD-RW/DVD-RW 1 x 3.5/1-inch FD as standard
<b>Electrical values</b>	
Power supply	Standard
Output power	300 W (380)
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	240 W
Apparent power	246 VA
Heat emission	864 kJ/h (820 btu/h)

<b>Temperature/ noise/ dimensions/ weight</b>	
Ambient temperature	10°C - 35°C (to IEC 721)
Sound pressure Level	24 (idle mode)
LpA in dB (+/- 4dB)	30 (full operating mode)
Noise class	0 (ISO9296)
Dimensions (HxWxD)	390 x 203 x 500 (mm)
Weight	approximately 15 -19 kg
<b>Compliance with Norm and Standards</b>	
<b>Product safety</b>	
Global	IEC 60950
Europe	EN 60950
USA	UL 60950 3rd. Ed.
Canada	CAN/CSA-C22.2 No. 60950 3rd. Ed.
<b>Electro magnetic compatibility</b>	
Europe	EN 55 022 class B, EN 55024, EN61000-3-2 / -3
USA / Canada	FCC class A
<b>Declaration of conformity</b>	
Europe (CE)	89/336/EWG (EMV); 72/23 EEC (LVD)
North America	FCC Class A
<b>Approvals</b>	
<b>Product safety</b>	
Global	CB
Europe	CE
USA / Canada	CSA <sub>US</sub> / CSA <sub>C</sub>
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	
<b>Supported operating systems</b>	
Microsoft: Windows 2003 Standard Edition; Microsoft: Windows SBS 2003 Standard* Microsoft: Windows 2000 Server SUSE: LINUX ES-8, ES-9, ES-9.1 Red Hat: LINUX EL3	
* No application support **For supported controllers (onboard and PCI cards for SCSI, RAID, LAN, WAN, etc.), please refer to the corresponding system configurator.	
<b>Server Management</b> (see separate data sheets)	
Standard	PRIMERGY ServerView Suite; PDA, OS watchdog