Data Sheet

We make sure



PRIMERGY Econel 100

Mono socket Economy Server Data security for smaller budgets

Issue April 28, 2006

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. 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

System board D2179 Chipset Intel® E7230 Processors Intel® Celeron D / Pentium 4 / Pentium D Frequencies (GHz) Front-Side-Bus S33 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 AID 0, 1, 10 (LSI) (for up to 4 x easy change SATA HDD) Broadcom LAN Broadcom LAN Brast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN Mrom PXE server) Graphics ATT Rage XL Floppy disk drive 1 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. IVO Slots 3 x PCIe (1x1; 1x4; 1x8) 4 x PCI 32-bit / 33 MHz Prive bays for hard disks 4 x 3.5/1-inch for accessible drives Power supply Standard Output power 300 W Rated voltage range Rated current in basic configuration Active power 216 W Apparent power 227 VA Heat emission 778 kJ/h (737 btu/h)	Tumo	Mana Casket Fashamy Camer
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 (10 rup to 4 x easy change SATA HDD) Broadcom LAN Fast Etherner 10/100/1000 Mbit BCM5751 (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive 3.5 inch, 1.24 Mbyte, optional DVD-ROM drive 5.25 inch, IDE Hard disk drives (10 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 PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option Electrical values Power supply Standard Output power 300 W Rated voltage range 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 0.6A Based current in basic configuration Active power 216 W Apparent power 227 VA	Type	Mono Socket Economy Server
Processors Intel® Celeron D / Pentium D	-	
Frequencies (GHz) 346 (3.06) / 631 (3.0), 641 (3.2) / 820 (2.8)	· · · · · · · · · · · · · · · · · · ·	
Front-Side-Bus Second-Level-Cache 256 Kbyte / 2 Mbyte / 2x 1 Mbyte ECC Memory (modules) Second-Level-Cache 256 Kbyte / 2 Mbyte / 2x 1 Mbyte ECC Memory (modules) Second-Level-Cache 328 Kbyte - 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		
Second-Level-Cache 256 Kbyte / 2 Mbyte / 2x 1 Mbyte ECC Memory (modules)	. ,	
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 (for up to 4 x easy change SATA HDD) Broadcom LAN 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 PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-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 1 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 0.6A Rated current in basic configuration Active power 216 W Apparent power 227 VA		256 Kbyte / 2 Mbyte / 2x 1 Mbyte ECC
(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		
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 (for up to 4 x easy change SATA HDD) Broadcom LAN 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) 2x SP (25 inch, DE Hard disk drives (SATA) 3x 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 3x PCIe (1x1; 1x4; 1x8) 4 x PCI 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch FD as option Electrical values Power supply Standard Output power 300 W Rated voltage range 100 - 240V 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 0.6A		
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 (PXE-Boot via LAN from PXE server) Broadcom LAN 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 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 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 / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 0.6A Apparent power 216 W Apparent power 227 VA	Mix and match possible	: with dual channel operation better
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 (for up to 4 x easy change SATA HDD) Broadcom LAN BCM5751 (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) 2x ATA-100; (for UP to 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug easy change, non hot-plug Tobyte 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 bayo 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 / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 0.6A Aster Current in basic configuration Active power 216 W Apparent power 216 W Apparent power 227 VA		
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 RAID 0, 1, 10 (LSI) chipset (for up to 4 x easy change SATA HDD) Broadcom LAN 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 (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 PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch for accessible drives 300 W Rated voltage range 100 - 240V Rated voltage range 100 - 240V Rated current in basic configuration Active power 216 W Apparent power 216 W Apparent power 227 VA	, ,	n possible;
Remote BIOS update via LAN (Global Flash tool). Interfaces		
New Part		
Serial	·	ia LAN (Global Flash tool).
Centronics (parallel) 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 Broadcom LAN Broadcom LAN Brast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive DVD-ROM drive Hard disk drives (SATA) 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. I/O Slots 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 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 / 1.5 - 0.6A Rated current in basic configuration Active power 216 W Apparent power 227 VA		
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** 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 Broadcom LAN Broadcom LAN (PXE-Boot via LAN from PXE server) 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, 1DE 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. 4 x PCI 32-bit / 33 MHz JO Slots 3 x PCle (1x1; 1x4; 1x8) (1x3) (1		
USB 6 x USB 2.0 (4 x rear side) LAN 1 x R,J45 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 (for up to 4 x easy change SATA HDD) Broadcom LAN 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 / 1.5 - 0.6A Rated current in basic configuration Active power 216 W Apparent power 227 VA	,	
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 (for up to 4 x easy change SATA HDD) Broadcom LAN Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive (PXE-Boot via LAN from PXE server) DVD-ROM drive 5.25 inch, IDE Hard disk drives (SATA) 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 1 x 3.5/1-inch FD as option Electrical values Power supply Standard Output power 300 W Rated voltage range 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 1.5 - 0.6A Rated current in basic configuration Active power 216 W Apparent power 227 VA		
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 (for up to 4 x easy change SATA HDD) Broadcom LAN BCM5751 (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive (PXE-Boot via LAN from PXE server) OVD-ROM drive 3.5 inch, 1.44 Mbyte, optional DVD-ROM drive 5.25 inch, IDE Hard disk drives (SATA) (Pyto 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 1 x 3.5/1-inch FD as option Electrical values Power supply Standard Output power 300 W Rated voltage range 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 7.5 - 3.5 A AC output 100 - 240V / 1.5 - 0.6A Rated current in basic configuration Active power 216 W Apparent power 227 VA		, ,
Onboard controller** IDE 1 Port Fast IDE (ATA) 2x ATA-100; (for CD-ROM and other accessible drives) Intel® FW82801FR chipset (for up to 4 x easy change SATA HDD) Broadcom LAN 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) I 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 Power supply Standard Output power Autor power Autor power 100 - 240V / 7.5 - 3.5 A AC output Rated current in basic configuration Active power Apparent power 227 VA		
IDE 1 Port Fast IDE (ATA) 2x ATA-100; (for CD-ROM and other accessible drives) Intel® FW82801FR chipset (for up to 4 x easy change SATA HDD) Broadcom LAN 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 easy change, non hot-plug (SATA) (PXE-Boot via LAN from PXE server) 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 / 7.5 - 3.5 A Rated current in basic configuration Active power 216 W Apparent power 227 VA		1 X VGA (15-pin)
Intel® FW82801FR chipset RAID 0, 1, 10 (LSI) (for up to 4 x easy change SATA HDD) Broadcom LAN BCM5751 Graphics ATI Rage XL Floppy disk drive DVD-ROM drive Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive DVD-ROM drive Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Floppy disk drive Josephics ATI Rage XL Floppy disk drive S.25 inch, 1.44 Mbyte, optional DVD-ROM drive Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Josephics ATI Rage XL Floppy disk drive S.25 inch, 1.0E Up to 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug Say PCIe (1x1; 1x4; 1x8) 4 x PCI 32-bit / 33 MHz Drive bays for hard disks A x 3.5/1-inch for accessible drives A x 3.5/1-inch Standard Output power Standard Output power And output Max. rated current AC output 100 - 240V / 7.5 - 3.5 A Rated current in basic configuration Active power Apparent power 216 W Apparent power 227 VA		1 Port Fast IDF (ATA) 2x ATA-100
chipset (for up to 4 x easy change SATA HDD) Broadcom LAN 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 1 x 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 Active power 216 W Apparent power 227 VA		
Broadcom LAN BCM5751 Fast Ethernet 10/100/1000 Mbit (PXE-Boot via LAN from PXE server) Graphics ATI Rage XL Floppy disk drive DVD-ROM drive 5.25 inch, 1.44 Mbyte, optional DVD-ROM drives (SATA) Graphics 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 PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch for accessible drives for accessible drives Power supply Standard Output power Rated voltage range Rated frequency Max. rated current 100 - 240V / 7.5 - 3.5 A AC output Rated current in basic configuration Active power 216 W Apparent power 227 VA	Intel® FW82801FR	RAID 0, 1, 10 (LSI)
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 I 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 / 7.5 - 3.5 A Rated current in basic configuration Active power 216 W Apparent power 227 VA	chipset	
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 PCle (1x1; 1x4; 1x8) 4 x PCl 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 1 x 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 / 7.5 - 3.5 A Rated current in basic configuration Active power 216 W Apparent power 227 VA		
Floppy disk drive DVD-ROM drive 5.25 inch, 1DE Hard disk drives (SATA) 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. I/O Slots 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch for accessible drives Power supply Standard Output power Rated voltage range Rated voltage range AC output Rated current in basic configuration Active power Apparent power 2.5 inch, IDE Up to 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug as y, 160, 250, 500 Gbyte easy change, non hot-plug A x 80, 160, 250, 500 Gbyte easy change, non hot-plug A x 9Cle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 30 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 30 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 30 MHz 4 x 9.5/1-inch 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1 x 3.5/1-inch 1 bay occupied by DVD/DVD-RW 1 bay	BCM5751	,
DVD-ROM drive Hard disk drives (SATA) 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. 1/O Slots 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz Drive bays for hard disks 4 x 3.5/1-inch for accessible drives Power supply Standard Output power Rated voltage range Rated voltage range AC output AC output Rated current in basic configuration Active power Apparent power 2.525 inch, IDE Up to 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug a x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 9, 160, 250, 160 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 80, 160, 250, 500 Gbyte easy change, non hot-plug 1x 4 x 1x8, 1x4; 1x8) 4 x PCI 32-bit / 33 MHz 2 x 5.25/1.6-inch 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch FD as option 2 x 5.25/1.6-inch 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch FD as option 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch FD as option 2 x 5.25/1.6-inch 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch 1 bay occupied by DVD		_
Hard disk drives (SATA) 1 Gbyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. 1 G Boyte equals one billion bytes when referring to hard disk drive capacity; accessible capacity may vary. 1 O Slots 1		
CATA 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 PCle (1x1; 1x4; 1x8) 4 x PCl 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 Rated voltage range 100 - 240V Rated frequency Max. rated current AC output Rated current in basic configuration Active power Apparent power 216 W Apparent power 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 33 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 3 x PCle (1x1; 1x4; 1x8) 4 x PCl 32-bit / 32 MHz 5 x 5.25/1.6-inch 1 bay occupied by DVD/DVD-RW 1x 3.5/1-inch FD as option 1 x 3.5/1-inch FD as option 1 x 3.5/1-inch 1 bay occupied by DVD/DVD-RW 1x 3		
VO Slots		
A x PCI 32-bit / 33 MHz		3,,,
for hard disks for accessible drives 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 Rated voltage range Rated frequency 50 - 60Hz Max. rated current 100 - 240V / 7.5 - 3.5 A AC output Rated current in basic configuration Active power 216 W Apparent power 227 VA	I/O Slots	
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 Active power 216 W Apparent power 227 VA	Dulina la com	4 x PCI 32-bit / 33 MHz
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 Output power 300 W Rated voltage range 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 Active power 216 W Apparent power 227 VA	•	4 2 5/4 in a h
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 Active power 216 W Apparent power 227 VA		1 X 010/ 1 111011
1x 3.5/1-inch FD as option	for accessible drives	
Power supply Standard		
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	Electrical values	
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		Standard
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		300 W
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	Rated voltage range	100 - 240V
AC output 100 - 240V / 3 - 1.5 A Rated current in basic configuration Active power 216 W Apparent power 227 VA		
Rated current in basic configuration Active power 216 W Apparent power 227 VA	Max. rated current	
basic configuration Active power 216 W Apparent power 227 VA	AC output	100 - 240V / 3 - 1.5 A
Active power 216 W Apparent power 227 VA		100 - 240V / 1.5 - 0.6A
Apparent power 227 VA		
PT 20 2 OF 20 2	•	
Heat emission 778 kJ/h (737 btu/h)		
	Heat emission	778 kJ/h (737 btu/h)

Temperature/ noise/ dir	<u>. </u>
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 comp	patibility
Europe	EN 55 022 class B, EN 55024, EN61000-3-2 / -3
USA / Canada	FCC class A
Declaration of conform	nity
Europe (CE)	89/336/EWG (EMV); 72/23 EEC (LVD)
North America	FCC Class A
Approvals	
Product safety	
Global	СВ
Europe	CE
USA / Canada	CSA _{US} / CSA _C
European countries and	nce with the safety requirements of all North America. National approvals by statutory regulations or for other or on request
Supported operating sy	/stems
	00 Server SE EM64T SLES 9;
* No application support **For supported controlle	ers (onboard and PCI cards for SCSI, please refer to the corresponding system

PRIMERGY ServerView Suite; PDA, OS watchdog

Standard