



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-cPCI-6910

Product Data Sheet

Overview:

The **VRM-cPCI-6910** incorporates Dual Core™ Intel® Xeon® processor. The latest Intel® Dual core™ architecture can not only effectively provide higher performance, but efficiently lower the power consumption while executing multi task at the same time. The server grade chip-set Intel® E7520 and 6300ESB is also adopted. For the applied device regarding large data requiring and critical tasks dealing, cPCI-6910 supports the latest Serial Attached SCSI (SAS) interface to make the whole storage components as a total solution. Besides, cPCI-6910 also provides one PMC slot on 64-bit/66 MHz bus, which let the VRM-cPCI-6910 more versatile to extend I/O interface.

Features:

CPU / Chipset / RAM

CPU Single Micro FCPGA Dual-Core Intel® Xeon® Processor (Sossaman) in 65 nm process

LV: 2.0 GHz, 2 MB L2, 31W ; 1.66 GHz, 2 MB L2, 15 W

ULV: 1.66 GHz, 2 MB L2, 15 W

FSB 667 MHz

Chipset Intel® E7520 with 6300ESB

RAM Up to 2 GB soldered DDR2 400 registered SDRAM with ECC (density depends on the process technology of SDRAM)

BUS

CompactPCI® Standards PICMG® 2.0 R3.0, PICMG® 2.1 R2.0, PICMG® 2.9 R1.0, PICMG® 2.16 R1.0

CompactPCI® Bus 64-bit/66 MHz CompactPCI® Bus

Operating in system slot or peripheral slot

Note: cPCI-6910 can not work on the peripheral slot with CT bus backplane(H.110)

BIOS

Chip Award-Phoenix 4 Mb flash memory

Features Intel® PXE pre-boot on Ethernet

Remote Console

Intel® Speed Step

Other Features

Hardware Monitoring Monitoring CPU temperature, FAN speed, system temperature, Vcore and DC voltages

Watchdog Timer Two stage, System Reset and NMI, with Programmable interval, 0-255 sec.

Operation Systems Compatible with Microsoft® Windows® 2000, Windows® Server® 2003,

Windows® XP, Red Hat® Fedora® core 6,



I/O Interfaces

Display ATI ES1000 controller on PCI™ bus, up to 250 MHz memory speed with 2D Graphics accelerator

Ethernet Four Gigabit Ethernet ports , 2 on the front panel, and the other 2 on the rear panel (PICMG® 2.16) with Intel 82571EB PCI-Express® Controllers

IDE One channel for 2.5" HDD on-board, the other channel for CompactFlash® or 40 pin IDE connector on RTM

Serial ATA Supports two-Channel SATA devices, one on the front, one on the rear

SAS Support one Channel SAS device on RTM

PMC One PMC slot on PCI 64-bits/66 MHz bus

Serial Port One RS-232 COM port on the front, one RS-232 COM port on the rear

KB/MS One PS/2 Keyboard/Mouse Combo connector

SCSI LSI Ultra-320 on RTM, support hardware RAID 1

CF One CF socket on RTM

USB USB 2.0, two ports on front panel, 2 on the rear panel

Front Panel I/Os COM1 (RS-232), PS2 KB & MS (combo), VGA, two USB, two Gigabit Ethernet

Onboard Connectors PMC, SATA/ IDE/CF

Rear Panel I/O COM2 (RS-232), two Gigabit Ethernet, two USB, SCSI



V Rose Microsystems, Inc.

www.vrosemicrosystems.com

VRM-cPCI-6910

Product Data Sheet

Features:

Mechanical and Environmental

Form Factor 6U CompactPCI®

Dimensions 233.33 mm x 160 mm (L x W), 1 slot (4HP) wide

Operating Temp. 0°C to +70°C with ULV processor

0°C to +55°C with LV processor

Extended temperature optional

Storage Temp. 0°C to +80°C

Shock 15 G peak-to-peak, 11 ms duration, non-operation

Vibration Non-operation: 1.88 Grms, 5-500 Hz, each axis

Operation: 0.5 Grms, 5-500 Hz, each axis

Measured Power cPCI-6910 with 2 MB SDRAM

Consumption max 40 W at ULV 1.66 GHz

max 44 W at LV 1.66 GHz

max 49 W at LV 2.0 GHz

Certificate or Test CE, FCC class A//

Ordering:

VRM-cPCI-6910/DCX20/M2G 6U cPCI Dual-Core™ Xeon® LV 2.0 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-6910/DCX20/M1G 6U cPCI Dual-Core™ Xeon® LV 2.0 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-6910/DCX16/M2G 6U cPCI Dual-Core™ Xeon® ULV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-6910/DCX16/M1G 6U cPCI Dual-Core™ Xeon® ULV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-6910/DXL16/M2G 6U cPCI Dual-Core™ Xeon® LV 1.66 GHz blade with 2 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-6910/DXL16/M1G 6U cPCI Dual-Core™ Xeon® LV 1.66 GHz blade with 1 GB DDR2 ECC/REG soldered RAM with SATA and IDE adaptor boards

VRM-cPCI-R6910 6U cPCI Rear I/O Board for cPCI-6910 with SATA and SAS adaptor boards

VRM-cPCI-R6911 6U cPCI Rear I/O Board for cPCI-6910 with two GbE, two USB, COM, SATA, CF, IDE and SCSI

VRM-DB-6910CF CF adaptor board for cPCI-6910