



V Rose Microsystems, Inc.

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VRM-CT-30

Product Data Sheet

Overview:

The **VRM-CT-30** is a rugged conduction cooled 3u compactPCI Intel Core 2 Duo Processor Blade.

Features:

Processor System

CPU: uFC-BGA Intel Core 2 Duo LV (L7400) 1.5 GHz, 667 MHz FSB, 4 MB L2 cache | uFC-BGA Intel Core Duo ULV (U2500) 1.2 GHz, 533 MHz FSB, 2MB L2 cache | uFC-BGA Intel Celeron M Proc ULV (423) 1.07 GHz, 533 MHz FSB, 1 MB L2 cache

Chipset: Intel 3100 (Memory Controller Hub)

RAM: Single Channel DDR2-400 (ECC) Soldered 1 GB

BIOS: AMI 16 Mbit FWH Flash Memory

CompactPCI Bus: 32-bit/33MHz CompactPCI Bus

PICMG standard: PICMG2.0, PICMG 2.1 Hot Swap R2.0

Connectivity

Ethernet: Intel PCI-Express 82571EB dual port Ethernet controller, 2 Gigabit Ethernet ports on RTM w/o LEDs

Graphics: XGI Z11 PCI-E x1 2D Graphics Controller, 32 MB DDR2 SDRAM, Up to 1600 x 1200 at 70 Hz 16 M colors

USB: 2 USB 2.0 ports on RTM

Serial Port: 1 RS-232 port, one 10-pin header on RTM

Storage

SBC: Optional USB flash disk module

RTM: 3x 7-pin SATA connectors onboard

Operating System

OS: Microsoft Windows XP, Server 2003, Vista Enterprise 32-bit, Fedora Core 8

Miscellaneous

LED: 3 LEDs: Power, WDT, CPU overtemperature

Hardware Monitoring: Integrated in W83792AG, Monitoring CPU temperature, Vcore and DC voltages

Watchdog Timer: Integrated in Intel 3100, Two stages, System Reset and NMI, with programmable interval.

Ordering:

VRM-CT-30/C2D15/M1G: Rugged Conduction Cooled 3U CompactPCI Core 2 Duo LV1.5 GHz SBC with 1 GB soldered REG/ECC DDR2 SDRAM

VRM-CT-30/CD12/M1G: Rugged Conduction cooled 3U CompactPCI Core DUO 1.2GHz SBC with 1GB soldered REG/ECC DDR2 SDRAM

VRM-CT-30/CM10/M1G: Rugged Conduction Cooled 3U CompactPCI Celeron M LV 1.0 GHz SBC with 1GB Soldered REG/ECC DDR2 SDRAM

VRM-cPCI-R3920T: Rear Transition Module for CT-30 (80 MM Depth)

VRM-SUSB-4GB-LP: 4GB low profile USB flash disk module

VRM-SUSB-8GB-LP: 8GB low profile USB flash disk module



Mechanical and Environmental

Form Factor: 3U 4HP (single slot width) Compact-PCI

Operating Temperature: -40C to 85C for U2500 and 423 processor, -40C to 75C for L7400 processor by conduction cooled with standard conformal coating.

Storage Temperature: -40C to 85C

Relative Humidity: 95% non-condensing

Shock: 40G Half sine, 11ms duration in operating

Vibration: 22Grms, 2000 Hz each axis in operating

Power consumption:

(Windows XP with 100% CPU usage):

Core 2 Duo 1.56 GHz—36W

Core Duo 1.2 GHz—27W

Celeron M 1.07 GHz—24W

Safety and EMI

Certifications: CE, FCC Class A