



V Rose Microsystems, Inc.

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VRM-CE4

Product Data Sheet

Overview:

The CE4-PIANO is available in different flavours. Bottom-of-the-range, the board is equipped with a PCI to SATA controller chip and an onboard SATA hard disk (or SATA silicon state drive). This combination is a straightforward mass storage solution - plug and play.

For maximum flexibility, the CE4-PIANO can be optionally populated with up to three SATA RAID port multipliers in addition, each offering five secondary ports. The first multiplier is mainly used to control the front panel eSATA connectors, the second port multiplier is engaged in on-board SATA, and the third multiplier is exclusively dedicated to rear I/O SATA. The CE4-PIANO can also carry a mezzanine storage module (C20-SATA) equipped with up to 2 SATA hard disk drives, which allows for a basic RAID configuration.



Features:

Form Factor:

- 3U Single Size Eurocard (100x1600mm²)
- Front panel width 4HP (20.3mm)

CompactPCI:

- 32-bit J1
- 33/66MHz
- Suitable for CPCI backplanes with +5V or +3.3V VIO (J1 w/o key)

Main Components:

- PCI to SATA controller Sil3114, quad-port
- Up to 3x SATA port multiplier Sil3726, one port to five-port expander each.

Front Panel SATA:

- 3 x eSATA receptacles available from front panel, delivered from SATA port multiplier 1.
- Individual F/P control LEDs green=link, orange=activity

On-Board SATA:

- Up to 5 SATA latching connectors
- 2 channels from SATA port multiplier 1
- 3 channels from SATA port multiplier 2
- Option on-board 2.5 inch SATA drive
- Option mezzanine storage module

Rear I/O SATA:

- Option 5 port J2 rear i/O SATA channels
- Additional rear I/O SATA port for satellite board configuration

SATA RAID:

- Raid firmware from image
- BIOS flash tool

Environmental Conditions:

- Operating: 0C to 70C
- Storage: -40C to 85C
- Humid: 95% non condensed
- Altitude: -300m to 3000m
- Shock: 15g .33ms, 6g 6ms
- Vibration: 1g 5-2000Hz

EC Regulations:

- EN55022, EN55024, EN60950-1 (UL60950-1/IEC60950-1)
- 2002/95/EC (RoHS)

Ordering:

VRM-CE4-1: 3U, Serial ATA controller with 3 x F/P eSATA, 5x onboard SATA connectors, option 2.5-inch on-board SATA hard disk drive