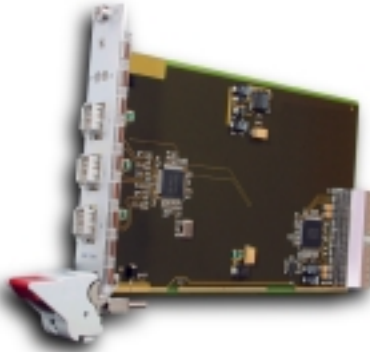


Overview:

The **VRM-CF2-X** is a miniaturized complete PC for the CompactPCI bus. For industrial control and measurement systems, modularThe **VRM-CF2** is a 400Mbps IEEE 1394a-2000 FireWire OHCI compatible hostadapter, suitable for any high performance CompactPCI® industrial computer systems. With its triple 1394 cable port, the **VRM-CF2** can be operated as a controller (master) and transceiver. Typical target peripherals of the 1394 serial bus are devices with high real time data volume. Classic peripherals such as printers, scanners and disk drives can profit from the 1394 advantages too. Isochronous packets are issued on the average of each 125µs in support of time-sensitive applications. A high quality video signal generates an uncompressed continuous data flow of up to 200Mbps, which is passed across the IEEE1394 bus just in time. The **VRM-CF2** board is based on the Texas Instruments OHCI-Lynx link layer controller, which operates with data transfer rates up to 400Mbps. The physical cable transceiver (PHY) also supports up to 400Mbps transfer speed. As its name states, the TSB12LV23 OHCI-Lynx LLC requires software that is compatible to the Open Host Controller Interface standard. However, there exist also non-OHCI 1394 applications, written for the TSB12LV21B PCILynx-2. Therefore, to be used with programs that require the PCILynx-2 LLC, an alternative non-OHCI 1394 host adapter board is available, VRM-CF4. The **VRM-CF2** is housed on a 3U (single size) Eurocard. For 6U systems, V Rose offers a mechanical adapter kit to expand the front panel (VRM-CR9-ADP).



Features:

- 3U Eurocard (100x160mm²), front panel width 20.3mm (4HP), mechanics constructed with respect to EMC requirements, ejector lever
- IEEE 1394: Connectors FW1-FW3: 3 x Molex connectors 6-position, including power distribution (+12V/1.5A), individually fused by Polyswitch resettable fuse. Cable: Shielded, 2 power conductors (power pair), 2x2 signal conductors (twisted pair, each pair shielded) Differential A, Differential B
- IEEE 1394 Data Transfer Rate: OHCI-Lynx Controller (Link Layer): 100,200 and 400Mbps PHY Transceiver: 100,200 and 400Mbps
- IEEE 1394 Controller Chip: TI OHCI-Lynx TSB12LV23 Link Layer Controller, 1394-1995, most features of 1394a supplement, 1394 OHCI compatible, programmable deep FIFO's, PCI Bus Master, PnP compatibility
- IEEE 1394 PHY Chip: TI TSB41AB3/TSB41LV03 IEEE 1394 triple-cable transceiver/arbitrator, cable port monitor, cable power monitor, transceiver disabled when cable not active, short reset, compatible to 1394-1995, FireWire™ and 1394a-2000, switching regulator powers PHY from cable when board is switched off (hub function maintained)
- IEEE 1394 LED Array: 1x2 LED, cable active node(s), PHY power
- CompactPCI Bus Connector J1: 32-Bit, 33Mhz (133MB/s), DMA bus master, 3.3V or 5V interface
- Power Consumption, Connector J1: +5V ±5% 0.1A max. +3.3V ±0.3V 0.3A max., +12V ±5% 0.1A max. (without 1394 cable power charge), +5V ±5% 0.1A max, V10 +3.3V or +5V, max. 0.1A
- Operating Temperature: 0-70°C (Commercial grade)

Humidity: 5-90% non-condensing.

Ordering Options:

VRM-CF2: 3U CompactPCI IEEE 1394 3-port host adapter 400Mbps, OHCI-Lynx LLC (OHCI compatible)

VRM-CR9-ADP: mechanical kit, converts front panel from 3U to 6U