

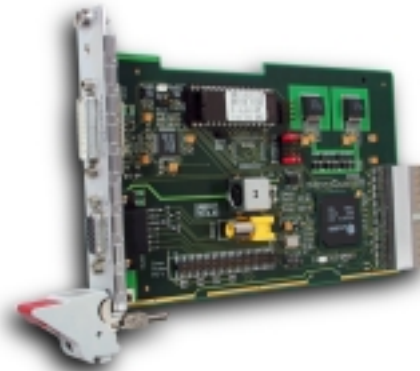


Overview:

The **VRM-CV1-X** is a CompactPCI Visual Graphics Adapter for Digital and Analog Monitors. Housed on a 3U Eurocard, the **VRM-CV1-X** is equipped with both, DVI and D-SUB connectors for simultaneous attachment of digital display units and analog monitors. The board is built upon a 128-bit drawing engine, resulting in superior performance. Analog monitors with a resolution of up to 1600x1200 and TFT flat-panel displays up to 1280x1024 pixels are supported by the hardware. The **VRM-CV1-X** is based on the Lynx3DM (Silicon Motion), a low power high performance graphics controller chip. The video memory is integrated into the chip package (available as 4/8/16MB) and delivers over 1.6GB/s bandwidth, resulting in fast 3D rendering, and real-time full frame video playback of MPEG2/DVD content without the need for additional hardware. The **VRM-CV1-X** is suitable for attachment to all popular video monitors. Displays provided with a Digital Visual Interface can be connected to the DVI receptacle. For all legacy monitors with analog inputs, the **VRM-CV1-X** is provided with an additional D-SUB connector. Both graphics outputs of the **VRM-CV1-X** are independent from each other and can deliver different content simultaneously to their respective screens. When operated under Windows™, the **VRM-CV1-X** allows for simultaneous use of two screens. *Multi-Display* means applications available at the same time across multiple display devices, and *Dual View* is a synonym for displaying any rectangular portion of the primary display zoomed up on the secondary screen. Drivers are provided for all Windows™ operating systems and Linux. The **VRM-CV1-X** is available with 4 - 16MB video memory. The boards video capture feature processes incoming video data from the Zoom Video Port and sends the data to the local frame buffer. Complete OS software support is available for Linux, Windows™ 98, ME, NT, 2000, and XP. The **VRM-CV1-X** is a 3U Eurocard. For use within 6U CPCI card cages, V Rose offers their VRM-CR9-ADP, a mechanical kit for the expansion of front panel from 3U to 6U.

Features:

- 3U Eurocard (100x160mm²), front panel 4HP (20.3mm) EMV shielded, ejection lever
- Primary Display Port Digital Visual Interface: supports digital monitors, *DVI-I* receptacle mounted into the boards front panel, up to 1280x1024 pixel, 16M colors, 85Hz refresh rate, interface electronics based on PanelLink Digital Technology (Silicon Image), Hot Plug Detection, immunity against noise by differential signalling according to TMDS (Transition Minimized Differential Signaling), Single Link (*though DVI-I preserves some pins for analog signals, these pins are NC on the VRM-CV1-X, resulting in a functionality according to DVI-D (D=digital). The DVI-I (I=integrated analog and digital) receptacle however allows use of both, DVI-I and DVI-D cables and accessories at your convenience.*)
- Secondary Display Port Analog Monitor Connector D-SUB 15: supports analog monitors SXGA/UXGA compatible, Mini D-SUB 15-pos. socket mounted into the boards front panel, up to 1600x1200 pixel, 16M colors, 85Hz refresh rate, RAMDAC 200 MHz (*Currently available Windows™ drivers unfortunately do not support the maximum resolution*)
- TV Video Outputs: S-Video socket Min-DIN/Hosiden 4-pos. (S-VHS, Hi-8) Composite Video jack Cinch/RCA (CVBS, FBAS) (*Due to lack of free space in the cards front panel, the TV video connectors are mounted in the middle of the board, thus suitable for internal wiring or open experimental card frames. Functionally, these outputs are dedicated to the Secondary Display Port.*)
- Zoom Video Port: 40/50-pos. pin header, metric 2mm
- Graphics Controller Chip: Low power high performance controller Lynx3DM, 2D, 3D and DVD motion display, 128-bit drawing engine, integrated video memory 4/8/16MB, Dual-View and Multi-Display support under Microsoft Windows™, Zoom Video Port
- CPCI Bus Connector J1: 32-Bit, 33MHz (133MB/s), DMA bus master, 3.3V or 5V interface
- CPCI Bus Connector J1: +5V $\pm 5\%$ 0.1A max., +3.3V $\pm 0.3V$ 0.3A max.
- Operating Temperature: 0-70°C (commercial grade). Relative Humidity: 5-90% non-condensing
- Software Drivers, API, Tools: Linux (Xfree86), Microsoft Windows™98, NT 4.0, 2000, XP, VxWorks, BIOS, Windows™API, Windows™ Control Panel



Ordering Options:

- VRM-CV1-1:** 3U CompactPCI Graphics controller, 4MB
- VRM-CV1-2:** 3U CompactPCI Graphics controller, 8MB
- VRM-CV1-3:** 3U CompactPCI Graphics controller, 16MB
- VRM-CR9-ADP:** mechanical kit, converts front panel from 3U to 6U

please call for availability

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