

Overview:

The **VRM-CE2-X** is a CompactPCI Dual ATA CompactFlash controller. It is provided with two independent CompactFlash sockets for type I or II modules, suitable for ATA True IDE Mode silicon disks and even microdrives. One of the CF card slots is available from the board's front panel (thus allowing usage of removable media), while the other CF slot is situated on-board. The **VRM-CE2-X** is based on an integrated Ultra ATA/100 IDE controller. The primary port is routed across the pin header P_IDE, which provides for attachment of an on-board 2.5" notebook style hard disk (board versions CE2-2 and CE2-3). The secondary IDE port is wired to the front panel CompactFlash socket CF1, which allows for hot plugging and removing of a CF card. The CompactFlash slot CF2 however requires removing the whole board for a media change, and is available as an alternative to the on-board hard disk only (board versions CE2-1 and CE2-4). The **VRM-CE2-X** can be used with any popular ATA True IDE Mode CompactFlash type I or II cards, either Flash (silicon disk) or microdrive (rotation disk) modules. As an option, the **VRM-CE2-X** can be equipped with an additional 2.5" IDE/ATA disk drive. Constructed with portable applications in mind, these hard disks are a proven mass storage solution for rugged environment, offering capacities of 40GB or more. The **VRM-CE2-X** host adapter complies with all IDE bus data transfer protocols up to the Ultra ATA/100 standard. Provided with on-board BIOS, the system can be booted directly from the CompactFlash or HDD. Alternatively, the board can be used in addition to other IDE ports in a system. The **VRM-CE2-X** is a compact and versatile industrial storage solution, dealing with fixed and removable media, both available on a single board. Drivers for DOS, Windows95/98/ME, NT4 and Windows 2000 are available for upon request. Microsoft native drivers are also compatible to the **VRM-CE2-X**. For 6U CompactPCI® systems, there is a mechanical kit available, expanding the front panel to 6U full height (VRM-CR9-ADP).

Features:

- 3U Eurocard (100x160mm²), front panel 4HP (20.3mm), mechanics constructed with respect to EMC requirements, ejector lever
- 2 IDE ports, all data transfer modes up to Ultra ATA/66 and Ultra ATA/100. Primary IDE port in use for optional on-board hard-disk, or –alternatively- on-board CompactFlash socket CF2. Secondary IDE Port for front panel CompactFlash socket CF1, hot plugging and removing.
- Socket CF1: CompactFlash type 1/11 socket with ejector, media swap through cut-out in the front panel, addressed as secondary IDE Port, +3.3V supply, self resetting electronic fuse 0.5A
- Socket CF2: CompactFlash type 1/11 socket, fixed media (change requires removing of the board), addressed as primary IDE port, CF2 available as an alternative to the on-board hard disk only, +3.3V supply, self resetting electronic fuse 0.5A
- Connector P_IDE: 2x22 position metric pin row 2.00mm, suitable for attachment of an optional on-board hard-disk by micro-ribbon flat cable, +5V supply, self resetting fuse 1.25A, addressed as primary IDE port.
- Data Transfer Rates: PIO modes 0-4 (max.16.6MBps), MDMA modes 0-2 (max 16.6MBps), UDMA modes 0-4 (max. 66.6MBps). UDMA mode 5 (max. 100MBps).
- CompactPCI® Bus, Connector J1: 32-Bit DMA bus master (133MBps), 3.3V or 5V Interface
- 2x2LED array, power and activity of the on-board HDD, activity CompactFlash socket CF1, activity CompactFlash socket CF2
- Connector J1: +5V \pm 5% 0.1A max. (consumption of the optional on-board hard disk drive not included), +3.3V \pm 0.3V 0.2A max. (consumption of the CompactFlash cards not included)
- Operating Temperature: 0-70°C (0-55°C option on-board HDD). Humidity: 8-90% non condensing



Ordering Options:

- VRM-CE2-1:** 3U CompactPCI Dual ATA CompactFlash controller, 2 CompactFlash sockets (media not included), 1 slot internal, 1 slot external (front panel)
- VRM-CE2-2:** 3U CompactPCI ATA CompactFlash controller, 1 CompactFlash socket available from front panel, with Ultra ATA/100 hard disk on board
- VRM-CE2-2X:** Same as VRM-CE2-2 without Hard Disk with mounting kit.
- VRM-CE2-3:** 3U CompactPCI ATA/IDE controller, with Ultra ATA/100 hard-disk on-board, CompactFlash sockets removed
- VRM-CE2-3X:** Same as VRM-CE2-3 without Hard Disk with mounting kit.
- VRM-CE2-4:** 3U CompactPCI ATA CompactFlash controller, 1 internal CompactFlash socket, closed front panel
- VRM-CR9-ADP:** Front panel expansion to 6U, mounting kit.