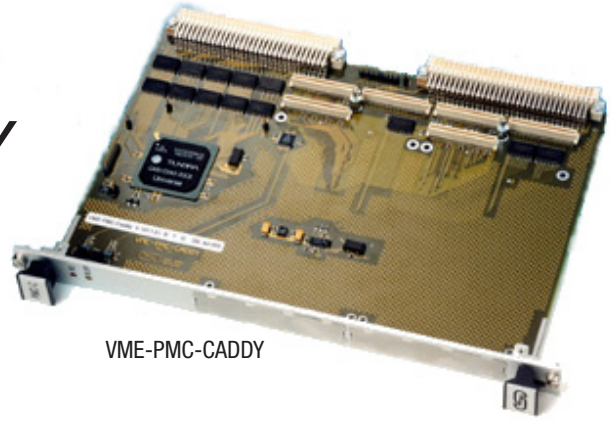




# VME-PMC-CADDY

## VME-Carrier Board for PMC Modules



VME-PMC-CADDY

- Easy Expansion of VMEbus Systems
  - Add up to 2 PMC boards to your system
  - Connect to the field with P2-IO
  - Insert 2 single or 1 double size PMC modules
  - Use options for P2 pin assignment and 3.3 V supply.
- High Bandwidth Connection between VME and PCI
  - Powerful VME-PCI Bridge UNIVERSE CA91C142
  - 4 level VME arbiter and address space up to A32/D32
  - VME64 extension connector
  - Master and slave capability.
- Reliable design – easy to handle and cost effective
  - Design for low power consumption and easy cooling
  - Approved in many industrial applications
  - Standard interfaces and form factors according to IEEE P1386 and IEEE 1014
  - Software libraries available.

### VME-PCI Link

The VMEbus unit PMC-CADDY is a VME64 base unit that can carry up to two PMC modules of normal size or one module of double size. For the VMEbus connection, the VME-PCI Bridge UNIVERSE CA91C142 by Tundra With an internal clock rate of 33 MHz is used.

### VMEbus Interface

The CA91C142 interface can operate either as either slave or as Master on the VMEbus. If the board operates as master, it supports a 4-level arbiter. The PMC-CADDY operates with a data width of up to 32 bits and with 32 address signals on the VMEbus. You can apply the VMEbus interrupt to any of the seven interrupt-request lines. The board connects to the VMEbus by two 160-pin VG-connectors according to IEC603-xx on VME64 extensions. A red LED shows an active VMEbus-interrupt request in the front panel and a yellow LED shows a VMEbus access onto the board.

### PMC Plug-In Units

Draft standard IEEE P1386/Draft 2.0 is the standard used for both PMC plug-in units' design except for the standard I/O pin

routing. This design makes it possible to insert any PMC modules on the market. In addition to the connectors for the PMC address/ data and control signals, every plug-in unit of the PMC-CADDY has an I/O-connector that applies the I/O signals of the PMC modules to VMEbus connector P2. Two different P2 pin assignments are available: In the standard configuration, each P2-pin connects to one I/O-pin of the PMC modules (acc. to PMC-Update of FORCETM, Table 1, Author: Wayne Fischer, Director of Strategic Programs CMC/PMC Working Groups Chair, 22.10.96). In the option -32P, the pin assignment is acc. to IEEE P1386/Draft 2.0, Table 6-3. This pin assignment offers to connect the two PMC-modules via P2, because several PMC-I/O-signals short at P2.

### Front Panel

The front panel of the PMC-CADDY has two holes for the front panels of the PMC modules. A blank cover for free plug-in units is included in the price.

### Software

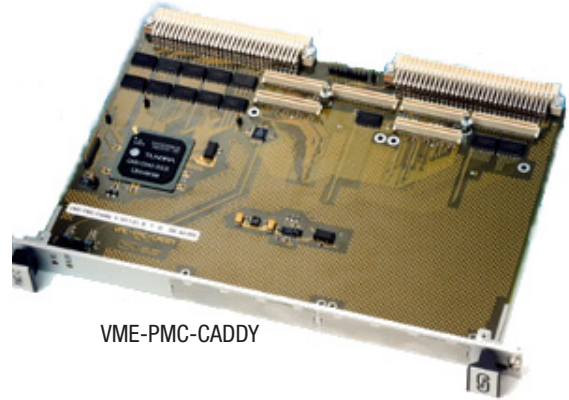
Example libraries for the initialization of the board in C-Source-Code for VxWorks and OS-9 are available for a fee on a disk (MSDOS format). Drivers for further operating systems are available on request. Please state your operating system with the version number when you order.

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VME-PMC-CADDY

### Technical Specifications:

VMEbus:	
VMEbus access:	Master or slave function, A32, A24, A16; D8, D16, D32
Base address:	Selectable via coding switch (no geographical addressing)
Address modifier:	Standard supervisory and non-privileged data access, extended supervisory and non-privileged data access, short supervisory and non-privileged access
VMEbus standard:	IEEE 1014 Rev. D
VMEbus connector:	160-pole VG connector (IEC 603-xx), acc. to VME64 extension standard
LEDs:	VMEbus interrupt - red LED VMEbus access - yellow LED
PMC slots:	
Standard:	IEEE P1386 / draft 2.0
Size:	Two single size or one double size module
VME PCI Bridge:	UNIVERSE CA91C142, configuration via coding switches
Voltage level:	3.3 V or 5 V (signal level)
General:	
Temperature:	0...50 °C (Order no.: V.1911.01, V.1911.11, V.1911.10) -40...+75 (Order no. V.1911.02 )
Humidity:	Max. 90 %, non-condensing
Connector types:	P1, P2: VMEbus (IEC 603-xx, 160 pins) J11, J12, J21, J22: PMC address/data J14, J24: PMC I/O signals
Board size:	160 mm x 233 mm
VME dimensions:	6 U height, 4 HP width

### Order Information:

Designation		Order no.
VME-PMC-CADDY	VMEbus base board for two single PMC modules, P2-pin assignment acc. to PMC-Update from 22.10.96 (no interconnection between PMC-modules)	V.1911.01
VME-PMC-CADDY-T	as V.1911.01, but for extended temperature range: -40...+75 °C	V.1911.02
VME-PMC-CADDY-32P2	VMEbus base board for two 32P2 single PMC modules, P2-pin assignment acc. to IEEE P1386/ Draft 2.0, Table 6-3 (interconnection between 16 pins of the PMC-modules), extended temperature range on request	V.1911.11
VME-PMC-CADDY-3.3P1	3.3V power supply directly connected to VMEbus 3.3V, not generated from 5V supply, extended temperature range on request	V.1911.10
VME-PMC-CADDY OS-9 library	OS-9 LIB (68K and Power PC systems)	V.1911.56
VME-PMC-CADDY VxWorks LIB	VxWorks library	V.1911.58

For further information please visit  
<http://www.esd-electronics-usa.com/PMC.html>

