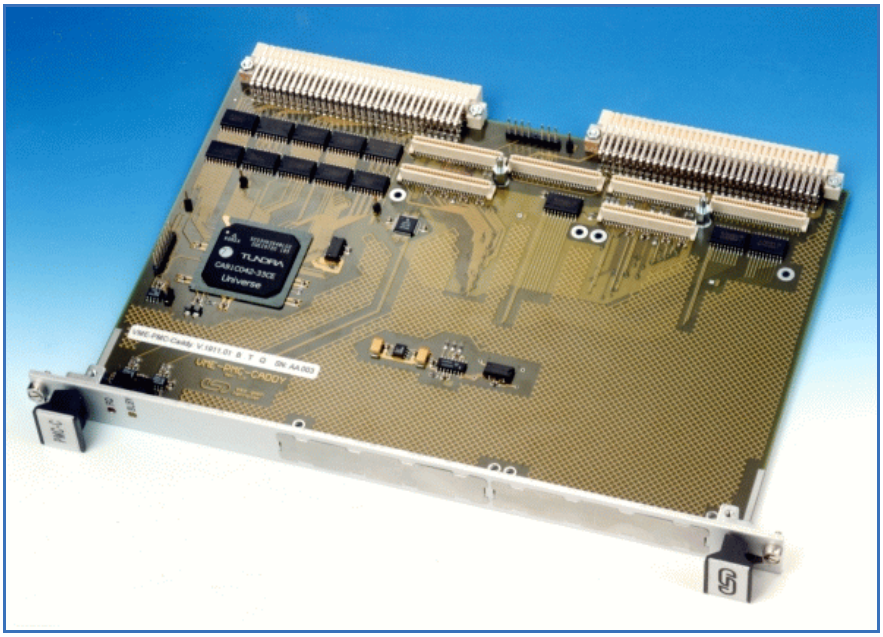
VME-PMC-CADDY
VME-Carrier Board for PMC Modules

VMEbus Interface
- *master or slave functionality*
- *4-level arbiter*
- *address /data up to A32/D32*
- *VME64-extension connector*

PMC Plug-In Units
- *plug-in units according to IEEE P1386/ draft 2.0 specified*
- *two single or one double size PMC module insertable*
- *VME-PCI bridge UNIVERSE CA91C142*
- *all PMC I/Os applied to VMEbus P2,*
- *option '-32P2': different P2-pinning*



VME-PCI Link
The VMEbus unit PMC-CADDY is a VME64-base board which 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 is designed in a way that the board can either operate as 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. The VMEbus interrupt can be applied to any of the seven interrupt-request lines. The board is connected to the VMEbus by two 160-pin VG-connectors according to IEC603-xx on VME64 extensions.

An active VMEbus-interrupt request is shown by a red LED in the front panel and a VMEbus access onto the board is shown by a yellow LED.

PMC Plug-In Units
Both PMC plug-in units are designed according to the draft standard IEEE P1386/Draft 2.0 (except the standard I/O pin routing). It is possible therefore to insert all PMC modules which are 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 which 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 is only connected to <u>one</u> I/O-pin of the PMC-modules (acc. to PMC-Update of FORCE™, 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 the connection of the two PMC-modules via P2, because several PMC-I/O-signals are shorted 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 (MS-DOS 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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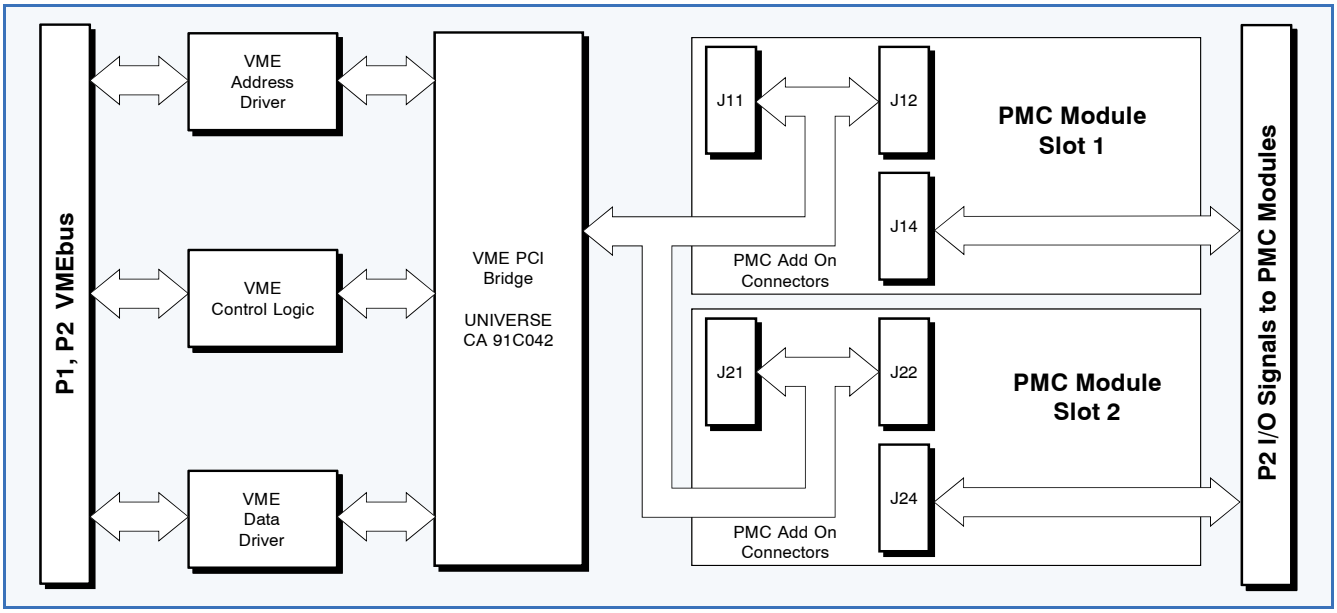
VME-Carrier Board for PMC Modules



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 nonprivileged data access, extended supervisory and non-privileged data access, short supervisory and nonprivileged 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*
Signal voltage level:	*5 V, 3.3V-PMC modules are only usable, if they are 5V-tolerant. PMC-modules with 3.3V-only signal voltage level are forbidden!*

General:		
Temperature:	*0...50 °C* *-40...+75*	*(Order no.: V.1911.01, V.1911.11, V.1911.10)* *(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 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 LIB	*OS-9 library (68K and Power PC systems)*	*V.1911.56*
VME-PMC-CADDY VxWorks LIB	*VxWorks library*	*V.1911.58*
VME-PMC-CADDY-ME	*English users' manual*	*M.1911.21*

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