

The VMOD-2(D) is a single height, VMEbus carrier board, offering flexible industrial Input/Output configurations. Its piggyback configurable I/Os (MODPACKs™) provide a cost-effective solution for a wide variety of applications, tailoring the VMOD-2(D) to precisely fit a particular Input/Output need.

The VMOD-2 and VMOD-2D differentiate from each other in the type on front panel connector fitted. The former is fitted with a latched 50-pin front panel connector whereas the latter is fitted with a 50-pin D-Sub connector for better EMI protection.

The VMOD-2(D)'s electrical interface consists for each MODPACK an 8/16-bit data bus plus 11 address lines and extended control lines, such as IRQ. Each MODPACK provides a separate interrupt line.

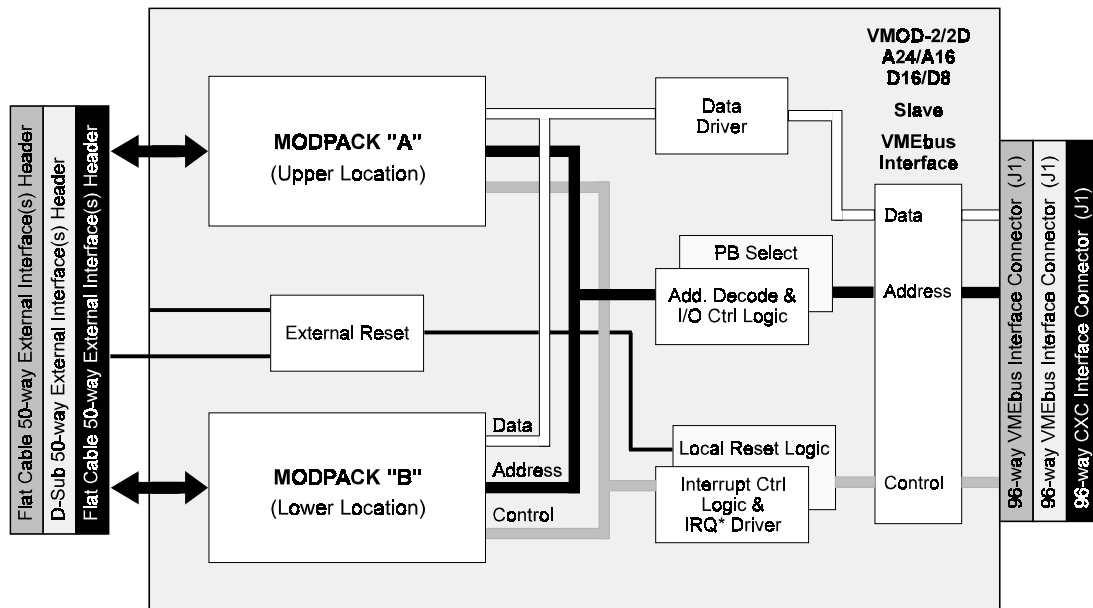
## FEATURES

- ◆ Accepts any two industrial I/O MODPACKs.
- ◆ Full 8/16bit databus, plus all necessary and extended control lines to piggyback.
- ◆ 6 (IMOD) or 11 (VMOD-2(D)) address lines are provided to each piggyback, for comprehensive decoding.
- ◆ Separate IRQ\* lines for each piggyback.
- ◆ VMOD-2(D) supports "Address Pipelining".
- ◆ External reset facility which can be used for local rest (or kind of "Emergency-Stop" facility through a "normally-closed" loop) on the carrier board, and resets both the the carrier board, and resets both the the VMOD-2(D)/IMOD and its MODPACKs.
- ◆ Interface flexibility through choice of connection configurations, including Industrial Screw terminal block interface.
- ◆ Full VMEbus Slave Interface, A24:D16/D8 or A16:D16/D8, Slave or full CXC interface.
- ◆ One-of-Seven Jumper select interrupt levels on the VMOD-2(D); choice of 4 IRQ lines on the IMOD.
- ◆ Extended temperature range available.
- ◆ Specification and Prototyping piggy-back available for designing customized Piggyback Interfaces.

## Specifications

<b>Host Interface</b>	A24:D16/D8 or A16:D16/D8, Slave VMEbus MC68040@ 33 MHz
<b>Address Range</b>	128 Bytes A1-A6 or 4 Kbyte A1-A11 available to each MODPACK for additional decoding use
<b>Address Modifiers</b>	Standard Supervisor/User Data or Short Supervisor/User Data access via jumpers
<b>Interrupt Request</b>	IRQ 1-7, jumper select. Interrupt vector generated by the MODPACK or via jumper settings.
<b>Local Reset</b>	Two-wire input available on front panel connector that may be disabled by jumper setting.
<b>DTACK Generation</b>	Generated by each of the two fitted MODPACKs.
<b>Power Requirements</b>	+5 V DC ( $\pm 5\%$ ), 140 mA typ. without MODPACKs.
<b>Voltage Sources</b>	+5 V DC, additionally $\pm 12$ V DC (not used by VMOD-2(D) may be needed by certain MODPACKs.
<b>Board Size</b>	Single height 3U 100 x 160 mm EuroCard
<b>Front Panel Connector</b>	50-pin male flat ribbon cable header with retaining latches (VMOD-2) 50-pin D-Sub connector (VMOD-2D)
<b>Temperature Range</b>	Operating : 0°C to +70°C (standard) : -40°C to +85°C (extended) : -55°C to +125°C (military) Storage : -55°C to +85°C
<b>Relative Humidity</b>	0 to 95% (non-condensing)
<b>Host Connector</b>	DIN 41612 style C, 96-pin
<b>Front Panel Width</b>	4 TE (20,3 mm), 1 Slot

### Block Diagram



### Ordering Information

Product	Description	Order No.
VMOD-2	Base module for two V/IMOD MODPACKs, without front panel connector	5230
VMOD-2	VMEbus carrier module for 2 MODPACKs, without connector on the front panel. 50 pin-row connector on board. Full 8/16-bit databus and separate IRQ lines for each MODPACK, Address Pipelining supported	3058
VMOD-2	VMEbus carrier module for two MODPACKs, 50-pin pinrow connector on the front panel for easy cable connection. Full 8/16-bit databus and separate IRQ* lines for each MODPACK, Address Pipelining supported	3034
VMOD-2-E2	VMEbus carrier module for two MODPACKs, 50-pin pinrow connector in the front panel for easy cable connection. Full 8/16-bit databus and separate IRQ* lines for each MODPACK, Address Pipelining supported, industrial operating temperature -40 to +85 degrees	3055
VMOD-2D	VMEbus carrier module for two MODPACKs, 50-pin D-SUB connector on the front panel for easy cable connection. Full 8/16-bit databus and separate IRQ* lines for each MODPACK, Address Pipelining supported.	3075
VMOD-2D-E2	VMEbus Carrier Module for two MODPACKs, 50-pin D-SUB female socket in front panel full 8/16-bit databus and separate IRQ* lines for each MODPACK, Address Pipelining supported, extended operating temperature -40 to +85 degrees (E2)	3088