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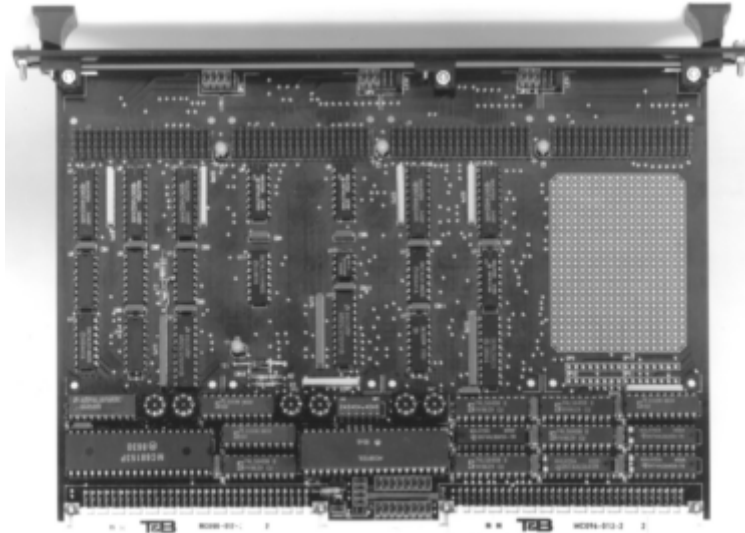
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Omnibyte *OB68K/VIO** VMEbus Universal Input / Output Board



General Description

The Omnibyte OB68K/VIO is an extremely versatile, universal input/output board. It has been designed with maximum user versatility in mind, for a wide range of commercial and industrial applications. All ports on the OB68K/VIO are on standard or custom Omnimodule I/O modules.

The modular I/O concept allows the user to customize the OB68K/VIO to a particular application, providing a reliable, cost effective solution for OEM requirements, as well as single installations.

Features Include:

- Four (4) Omnimodule I/O sockets, each capable of supporting a wide variety of Omnimodule's. (Standard Omnimodule's do not violate the VME above board height specifications, thereby requiring only one slot per board.)
- One (1) interrupt per Omnimodule with two (2) interrupts per Omnimodule optional.
- IEEE1014 (VMEbus) Rev. C.1 compatible.
- Two year limited warranty.

Specifications

Board Dimensions:

6.30in. (160mm) x 9.19in. (234mm) x 0.062in. (1.6mm) FR4 Printed Circuit Board (Multilayer)
Solder mask both sides.

Slave Data Transfer Options:

(Dynamically selected, statically enabled)
Short Addressing (A16, D16)
Standard Addressing (A24, D16)
Extended Addressing (A32, D16)

Interrupter Options:

Any 4(7) of I(N), ($I < N < 7$)

Standard; Four interrupt sources statically configured for one interrupt per module, with optional 0 to 2 interrupts per module. Programmable interrupt request levels (11-17) and programmable interrupt vectors.

Optional; Eight interrupt sources statically configured for two interrupts per module.

Programmable interrupt request levels (11-17) and programmable interrupt vectors.

Environmental Options:

Operating Temperature: 0 to 65 Degrees C.

Operating Humidity: 0-90% (non-condensing)

Power Options:

2.0A (typ) at +5VDC +/-5%

plus 2.0A (max) at 5VDC +/-5% per module

*1A (max) at +12VDC +/-5% per module

*1A (max) at -12VDC +/-5% per module

Physical Configuration Options:

NEXP Non-expanded Data Bus, Double VMEbus Board

Memory Mapped I/O

The addressing mode is dynamically selected between short, standard and extended addressing. Each mode may be statically enabled by a switch. Another switch determines if I/O access is allowed only during processor supervisory state. A third switch sets the addressing range of each Omnimodule and determines the address range requirements of the Omnimodule. The standard configuration uses address lines A1-A8 which allocates 512 bytes of memory for each Omnimodule. Additional address lines A9-A12 may be used as an option on the user definable pins, for a maximum memory allocation of 8192 bytes per Omnimodule.

Six hex switches are provided for base address selection. Two hex switches are used for short addressing, four for standard addressing, and all six are used for the extended addressing mode.

Address allocation is in five equal blocks, one block for each of the four modules, preceded by a block of address space beginning at the selected base address (hex switch selection). This block contains the Omnimodule interrupt levels, interrupt vectors, and other board information. The size of each block is determined by the largest I/O Omnimodule whose range is 512, 1024, 2048, 4096, or 8192 bytes.

The processor can dynamically determine the size and type of Omnimodule plugged in by reading the module ID code. Each Omnimodule has six lines of module identification and one line indicating Omnimodule present, which can be read by the processor.

A board fail LED indicator is provided on the OB68K/VIO and is under software control.

For applications requiring more than four Omnimodules, multiple OB68K/VIO boards may be installed as long as the base address (hex switch selection) does not conflict with other allocated address space. The address decoding on the OB68K/VIO will automatically compensate for base address boundary gaps and will provide efficient use of address space.

I/O

All I/O on the OB68K/VIO is achieved through Omnimodule I/O module daughter boards. Each

Omnimodule plugs into one of four sockets on the OB68K/VIO allowing for a total of four Omnimodules. Omnimodules have a low profile and do not violate the VME bus above board height specification, allowing the OB68K/VIO with Omnimodules to fit into just one slot. All I/O ports are brought out to the front panel and three of the Omnimodule's ports are also brought out to the user definable pins on the P2 connector. A wide variety of I/O can be implemented using the following available Omnimodules:

- OM/2SA2 - (2) RS232C asynchronous I/O ports using one 68681 DUSART with baud rates up to 38.4K baud.
- OM/20PUB - (20) lines of unbuffered parallel I/O using one 68230 PI/T
- OM/KLUGE - Blank wire-wrap kluge board.
- OM/SCSI - SCSI controller.
- OM/2SAS2 - (2) RS232C asynchronous/synchronous I/O ports using one 68564 with baud rates up to 1000K baud.
- OM/2SA4 - (2) RS422 asynchronous I/O ports using one 68681 DUSART
- OM/488 - GPIB (IEEE 488) controller.
- OM/KLUGE-DW - Double wide blank wire-wrap kluge board.
- OM/8SA2 - (8) RS232C asynchronous I/O ports using one SCC2698A.
- Additional Omnimodule's include: A/D, D/A and more...

Ordering Information

OB68K/VIO-Z

Where:

Z = number of interrupts (1 = one per module (4), 2 = two per module (8))

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