

VMIC VMIVME-5588DMA-210
Enhanced High-Speed DMA Fiber-Optic 1.2 Gbaud
Reflective Memory with Interrupts



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[Reflective Memory](#) >> **VMIVME-5588DMA**

Board Level Products – Real-Time Networking

RTnet Reflective Memory Products

VMIVME-5588DMA

VMEbus ENHANCED HIGH-SPEED DMA FIBER-OPTIC 1.2 Gbaud REFLECTIVE MEMORY RTnet WITH INTERRUPTS

- High-speed, easy-to-use fiber-optic network (1.2 Gbaud serially)
- Up to 16 Mbyte of Reflective Memory
- Data written to memory in one node is also written to memory in all nodes on the network
- Slave BLTs supported, master DMA controller (optional)
- Single-slot 6U VMEbus board
- Up to 256 nodes
- Up to 1,000 ft between nodes with multimode fiber-optic option
- Up to 10,000 m between nodes with single mode fiber
- Up to 30 m between nodes with coax cable option
- Data transferred at 29.5 Mbyte/s without redundant transfer
- Data transferred at 14.8 Mbyte/s with redundant transfer
- Any node on the network can generate an interrupt in any other node on the network or in all network nodes with a single command
- Error detection
- Redundant transmission mode for suppressing errors
- No processor overhead
- No processor involvement in the operation of the network
- A24:A32:D64:D32:D16:D8 memory access



Operating Systems
Solaris
SGI IRIX 4.x
SGI IRIX 6.x
VxWorks
DEC UNIX 4.x

Driver Software

[\(VMIVME/SW-RFM1\)](#)

Windows NT

Using VMIC's VMEbus CPU boards, VMISFT-9420

supports reflective memory access. support for interrupts, DMA and IP requires additional software supplied by the user.

Note: This includes DMA whereas 5576 & 5588 do not.

For Cables see [Accessories](#).

[View Specifications](#)
(in PDF file format)



- Any node may reset any or all other nodes
- Software compatible with [VMIVME-5578](#)
- Software compatible and network compatible with [VMIVME-5588](#)
- Software addressable digital output bit (available at front panel and P2 connector) for interfacing with the [VMIVME-5599](#) or [VMIVME-5591](#) optical switch board or any user-defined purpose
- Device driver that includes Internet protocol
- Automatic fiber-optic bypass switch option ([VMIVME-5599](#))
- Active fiber-optic bypass switch option ([VMIVME-5591](#) or [-5593](#))
- Optional multimode/single-mode converter for driving 6.2 mi ([VMIVME-5592A](#))

Ordering Options	A	B	C	-	D	E	F									
VMIVME-5588DMA	-				-											
<p>A = Memory Options</p> <p>0 = 256 Kbyte</p> <p>1 = 512 Kbyte</p> <p>2 = 1 Mbyte</p> <p>3 = 2 Mbyte</p> <p>4 = 4 Mbyte</p> <p>5 = 8 Mbyte</p> <p>6 = 16 Mbyte</p> <p>B = FIFO Option</p> <p>0 = 512 Transfer FIFO</p> <p>1 = 4 Kbyte Transfer FIFO</p> <p>C = Transmission Mode</p> <table> <thead> <tr> <th>Transmit</th> <th>Receive</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>0 = mm Fiber</td> <td>mm Fiber</td> <td>Multimode DMA</td> </tr> <tr> <td>1 = Reserved</td> <td></td> <td></td> </tr> </tbody> </table>								Transmit	Receive	Mode	0 = mm Fiber	mm Fiber	Multimode DMA	1 = Reserved		
Transmit	Receive	Mode														
0 = mm Fiber	mm Fiber	Multimode DMA														
1 = Reserved																

2 = sm Fiber	sm Fiber	Single Mode DMA
3 = mm Fiber	sm Fiber	Mixed Mode DMA
4 = sm Fiber	mm Fiber	Mixed Mode DMA
5 = Twinax	Twinax	Cable DMA
6 = Twinax	mm Fiber	Mixed DMA
7 = Twinax	sm Fiber	Mixed DMA
8 = mm Fiber	Twinax	Mixed DMA
9 = sm Fiber	Twinax	Mixed DMA

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