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



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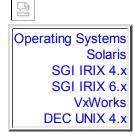


Board Level Products - Real-Time Networking

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 interrupts, DMA and IP redundant transfer
 requires additional softy
- 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



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.

<u>View Specifications</u> (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 <u>VMIVME-5599</u> or <u>VMIVME-5591</u> 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 (<u>VMIVME-</u> 5592A)

Orde		A	В	C	-	D	E	F			
VMIVME-5588DMA -								-			
A =	Memory	Options									
	0 =	256 Kbyte									
	1 =	512 Kbyte									
	2 =	1 Mbyte									
	3 =	2 Mbyte									
	4 =	4 Mbyte									
	5 =	8 Mbyte									
	6 =	16 Mbyte									
в =	FIFO O	ption									
	0 =	512 Trans	fer FIFO								
	1 =	4 Kbyte T	ransfer FI	FO							
c =	Transm	ission Mod	e								
	T:	ransmit	Receive			M	lode				
	0 =	mm Fiber	mm Fibe	r	N	Mult	imo	de	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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