

VMIC VMIVME-7452-405

Single Slot VME Floppy/Hard Disk Module



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- **Standard VME 6U single slot form factor**
- **Optional Flash drive**
- **3.5-inch 1.44 MB floppy drive**
- **Low power**

Functional Characteristics

Overview: The VMIVME-7452 is a 6U single slot VME module that provides hard disk and floppy disk storage options for GE Fanuc Embedded Systems' line of embedded VME processors. The module may be configured with either drive alone, or both. A Flash memory drive is available as an option.

The VMIVME-7452 is a passive VME board, making connection to the P2 user defined pins, power and ground only.

Cable Options: The VMIVME-7452 establishes connection to the single board computer (SBC) IDE interface through the VME P2 user-defined pins. The type of SBC module and physical arrangement of the VME chassis determines the optional cable required. For typical application with a single slot SBC, the VMIVME-7452 is physically placed adjacent to the SBC. Connection between the boards is accomplished with the VMXC-3 cable assembly. For applications with a double slot processor module, or installations where the VMIVME-7452 is not placed adjacent to the processor module, the 14-inch VMXC-H cable assembly is recommended.

Physical/Environmental Specifications

Dimensions: 6U double height single slot Eurocard form factor

Height	9.2 in. (233.4 mm)
Depth	6.3 in. (160 mm)
Thickness	0.8 in. (20.3 mm)

User Connectors: 34-pin floppy drive, 40-pin IDE

Ambient Temperature:

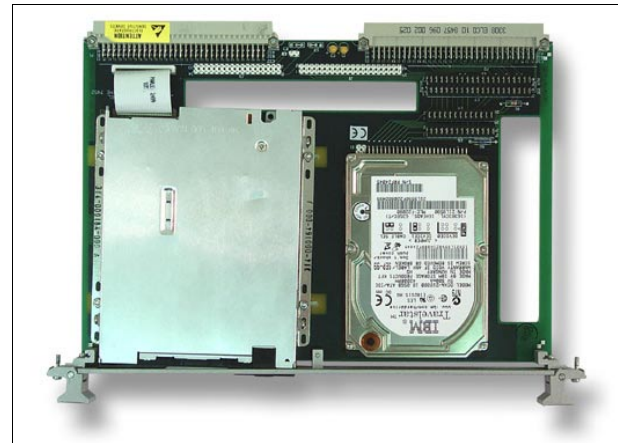
Floppy Disk: 5 °C to 50 °C operating range

Hard Drive: 5 °C to 55 °C operating range

Flash Drive: 0 °C to 60 °C operating range

Storage: -20 °C to 60 °C

Gradient: 20 °C per hr maximum



Humidity: 20% to 80%, noncondensing, maximum wet bulb 29 °C

Hard Drive Access Time:

Average Access Time: 14 ms

Average Latency: 6.67 ms

Power Requirements:

+5 VDC, <1.0 A typical, 2.5 A maximum (spinup)

Flash Drive System Performance:

Data Transfer Rate to Flash: 4.0 MB/s burst

Data Transfer Rate from Flash: 6.0 MB/s burst

Sleep to Write: 2.5 ms maximum

Sleep to Read: 2.0 ms maximum

Reset to Ready: 50 ms, typical, 400 ms, maximum

DC Input Voltage (Commercial): 5 V \pm 10%, 3.3 V \pm 5%

Power Consumption:

Sleep: 200 μ A at 3.3 V, 500 μ A at 5.0 V

Read: 32 to 80 mA at 3.3 V, 46 to 120 mA at 5.0 V

Write: 32 to 80 mA at 3.3 V, 46 to 120 mA at 5.0 V

NOTE: GE Fanuc does not recommend using the Flash drive options of this product with operating systems (such as Windows NT[®]) that make excessive writes to the Flash drive, due to the Flash drive's limited write/erase life span (approximately 300,000 write/erase cycles).

Disclaimer: GE Fanuc does not recommend the use of this product in harsh environments where the floppy drive can become contaminated due to excessive dirt, oil, or other foreign materials.

MTBF: 119,093 hours (217F)

Trademarks

Windows NT is a registered trademark of Microsoft Corporation. Other registered trademarks are the property of their respective owners.

Ordering Options							
March 25, 2004 800-007452-000 Y	A	B	C	–	D	E	F
VMIVME-7452	–			–			
A = Cable Configuration (Refer to text for application information) 0 = Reserved 1 = Reserved 2 = Reserved 3 = Reserved 4 = Reserved 5 = Includes Three-slot Cable Assembly, VMXC-3 6 = Includes 14-inch Cable Assembly, VMXC-H BC = Indicates Disk Module Configuration¹ 00 = Floppy Drive Only 01 = Reserved 02 = Reserved 03 = Reserved 04 = Reserved 05 = Reserved 10 = Reserved 11 = Reserved 12 = Reserved 20 = Reserved 21 = Reserved 22 = Reserved 30 = Reserved 31 = Reserved 32 = Reserved 33 = Reserved 34 = Reserved 35 = Floppy Drive and 30.0 GB Hard Drive 36 = 30.0 GB Hard Drive Only 40 = Reserved 41 = Reserved 44 = 40.0 GB Hard Drive Only 45 = Floppy Drive and 40.0 GB Hard Drive 50 = Reserved 51 = Reserved 60 = Reserved 61 = Reserved 62 = Floppy Drive and 256 MB Flash Drive 63 = 256 MB Flash Drive Only 64 = 60.0 GB Hard Drive Only 65 = Floppy Drive and 60.0 GB Hard Drive 70 = Reserved 71 = Reserved 80 = Reserved 81 = Reserved 82 = Floppy Drive and 440 MB Flash Drive 83 = 440 MB Flash Drive Only <small>1. GE Fanuc reserves the right to substitute hard drive and Flash drives where applicable. Any option not shown is reserved by GE Fanuc for future use.</small>							
For Ordering Information, Call: 1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859 Email: info.embeddedsystems@gefanuc.com Web Address: www.gefanuc.com/embedded Copyright © 2004 by VMIC Specifications subject to change without notice.							



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Additional Resources

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