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Find the *Abaco Systems / VMIC VMIVME-7452-405* at our website: ***Click HERE***

Embedded Systems

VMIVME-7452

Single Slot VME Floppy/Hard Disk Module

- ***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

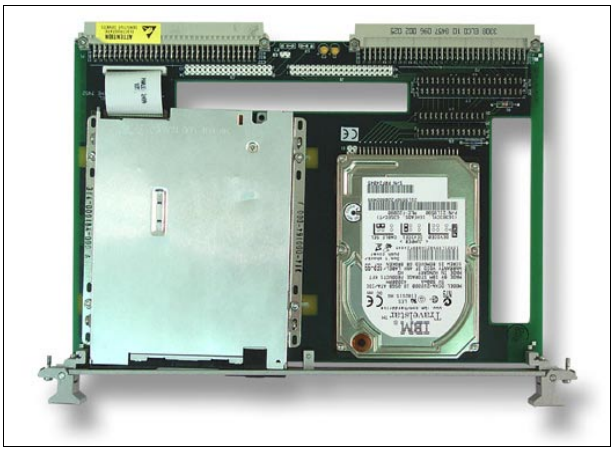
Dimensions: 6U double height single slot Eurocard form factor

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 ±10%, 3.3 V ±5%
Power Consumption:
- Sleep: 200 µA at 3.3 V, 500 µA 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)

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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 Configuration[1]
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

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.

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
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Embedded Systems

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Additional Resources

For more information, please visit the GE Fanuc Embedded Systems web site at:
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