

- Optional Flash drive
- 3.5-inch 1.44 Mbyte floppy drive
- Standard VMEbus 6U single-slot form factor
- Low power

INTRODUCTION — The VMIVME-7452 is a passive board that holds one floppy and one hard drive with an optional Flash drive available. The board is a 6U VMEbus form factor, deriving its power from the standard VMEbus P1 and P2.

The VMIVME-7452 has been designed to interface to VMIC's line of VMEbus-compatible PC/AT SBC boards. These SBC boards incorporate the floppy and IDE controllers on-board. Refer to the compatible SBC list in this specification.

SPECIFICATIONS

Physical Dimensions: Standard VME double height Eurocard (one slot)
160 x 233.25 x 20.32 mm

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

Ambient Temperature:
All Disks: 5 to 50 °C, operating
Storage: -25 to 60 °C
Rate: 20 °C per hr maximum

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

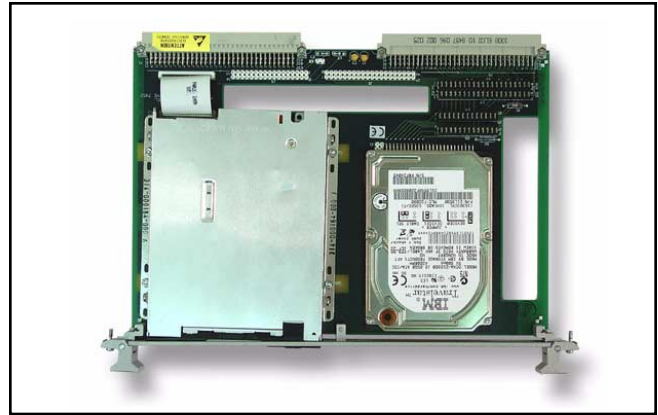
Hard Drive Access Time:
Average Access Time: 14 ms
Average Latency: 6.67 ms

Power Requirements:
+5 V, 2.5 A maximum (spinup)
<1.0 A typical

Flash Drive System Performance:
Data Transfer Rate to Flash: 4.0 Mbyte/s burst
Data Transfer Rate from Flash: 6.0 Mbyte/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

Flash Drive System Performance:
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: VMIC 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).



Ordering Options

July 23, 2002 800-007452-000 U	A	B	C	-	D	E	F
VMIVME-7452	-			-			

A = Indicates SBC Board to Be Mated with Disk Module

- 0 = Reserved
- 1 = Reserved
- 2 = Reserved
- 3 = Reserved
- 4 = For Use with VMIVME-7697, -7697A, -7751, and -7765
- 5 = For Use with VMIVME-7591, -7592, -7695, -7698, -7740, and -7750

BC = Indicates Disk Module Configuration ¹

- 00 = Floppy Drive Only
- 01 = Reserved
- 02 = Reserved
- 03 = Reserved
- 04 = Reserved
- 05 = Floppy Drive and 10.0 Gbyte Hard Drive
- 10 = Reserved
- 11 = Reserved
- 12 = Reserved
- 20 = Reserved
- 21 = Reserved
- 22 = Reserved
- 30 = Reserved
- 31 = Reserved
- 32 = 10.0 Gbyte Hard Drive Only
- 33 = 18.0 Gbyte Hard Drive Only
- 34 = Floppy Drive and 18.0 Gbyte Hard Drive
- 35 = Floppy Drive and 30.0 Gbyte Hard Drive
- 36 = 30.0 Gbyte Hard Drive Only
- 40 = Reserved
- 41 = Reserved
- 44 = 40.0 Gbyte Hard Drive Only
- 45 = Floppy Drive and 40.0 Gbyte Hard Drive
- 50 = Reserved
- 51 = Reserved
- 60 = Reserved
- 61 = Reserved
- 62 = Floppy Drive and 256 Mbyte Flash Drive
- 63 = 256 Mbyte Flash Drive Only
- 64 = 60.0 Gbyte Hard Drive Only
- 65 = Floppy Drive and 60.0 Gbyte Hard Drive
- 70 = Reserved
- 71 = Reserved
- 80 = Reserved
- 81 = Reserved
- 82 = Floppy Drive and 440 Mbyte Flash Drive
- 83 = 440 Mbyte Flash Drive Only

For Ordering Information, Call:
1-800-322-3616 or 1-256-880-0444 • FAX (256) 882-0859
E-mail: info@vmic.com **Web Address:** www.vmic.com
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1. VMIC reserves the right to substitute hard drive and Flash drives where applicable. Any option not shown is reserved by VMIC for future use.

Disclaimer: VMIC 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.

Compatible SBC Boards:

VMIVME-7591	VMIVME-7698
VMIVME-7592	VMIVME-7740
VMIVME-7695	VMIVME-7750
VMIVME-7697	VMIVME-7751
VMIVME-7697A	VMIVME-7765

MTBF: 119,093 hours (217F)

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