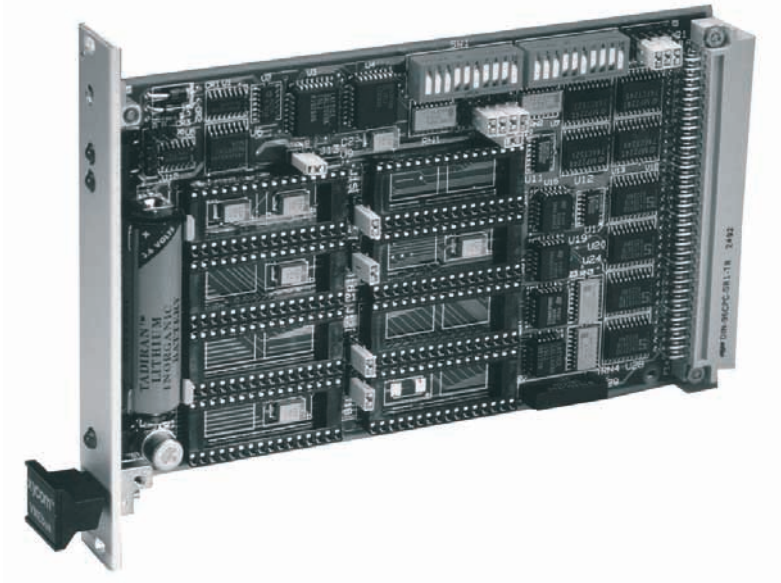


XVME-103

RAM/ROM/Flash Memory Module



FEATURES

- Eight 32-pin memory sockets
- Two independently configurable memory banks (via jumpers and switches)
- Supports read modify write (RMW) cycles
- Power-down memory protection circuitry
- Battery backup for CMOS RAM devices
- Completely user-configurable, allowing a variety of memory device speeds and types to be used
- Supports EPROM, CMOS RAM, Flash, and EEPROM
- Backup power monitor with front panel battery low indicator
- Front panel bank activity LEDs

The XVME-103 RAM/ROM Memory Module is a single-high, VMEbus-compatible board. It can accommodate up to 4 MB of RAM, 8 MB of EPROM, 4 MB of Flash or 4 MB of EEPROM. The module is designed with an on-board battery backup circuit to provide power to CMOS RAM devices in the event of a power failure.

The XVME-103 has eight 32-pin JEDEC sockets that are logically divided into two separate memory banks, containing four sites each. Each bank is designed to employ memory devices of the same type and speed, and each bank can be independently configured (via jumpers and switches).

Power monitoring circuitry on the XVME-103 prevents access to memory, and optionally asserts SYSREST if the supply voltage falls below 4.75 VDC. This circuit also: checks the backup power source during power-up, will turn on a front panel “battery low” LED, and can be configured to assert SYSFAIL if the backup voltage is insufficient to back-up CMOS memory devices.

X Y C O M
VME

Embedded products that you can count on!

PRODUCT SPECIFICATIONS AND RATINGS

Environmental

| | Operating | Nonoperating |
|--|--|--|
| Thermal | 0° to 65° C (32° to 149° F) | -40° to 85° C (-40° to 185° F) |
| Humidity | 20% to 90% RH, noncondensing | 20% to 90% RH, noncondensing |
| Shock^a | 30g peak acceleration, 11 msec duration | 50g peak acceleration, 11 msec duration |
| Vibration 5-2000 Hz^a | .015" (.38 mm) peak-to-peak displacement, 2.5g maximum acceleration | .030" (.76 mm) peak-to-peak displacement, 5.0g maximum acceleration |
| Altitude | Sea level to 10,000 ft.(3048 m) | Sea level to 40,000 ft.(12192 m) |

Hardware

| | |
|-----------------------|---|
| Power supply | +5 V @ .7A typical, .9 A maximum |
| Battery Rating | 1.9 Amp hours |
| Battery Life | Three years typical (using Hitachi 628128 RAM, or equivalent devices) |

| Memory | RAM | EPROM | Flash | EEPROM |
|---|-----------------------------------|--------------------------|-----------------------------------|----------------------|
| Capacity^a | 4 MB | 8 MB | 4 MB | 4 MB |
| Supported Device Sizes^a | 128Kx8, up to 512Kx8 | 128Kx8, up to 1024Kx8 | 128Kx8, up to 512Kx8 | 128Kx8, up to 512Kx8 |
| Supported Device Speeds | 50 ns, 100 ns, 150 ns, and 200 ns | | 50 ns, 100 ns, 150 ns, and 200 ns | |

^a two banks of four sites

VME Compliance

- Complies with VMEbus Specification, IEEE 1014-1987 Rev. C1
- A24:D16/D08(EO) DTB Slave
- 4 BUS GRANT INs connected to their respective BUS GRANT OUTs
- IACKIN connected to IACKOUT
- SYSFAIL Driver
- Supports RMW
- Form Factor: SINGLE (3U): 6.5" × 3.95" (165.1 mm × 100.3 mm)

ORDERING INFORMATION

| OrderNumber | Description |
|-----------------|-----------------------------------|
| XVME-103 | Single-high RAM/ROM Memory Module |
| includes | 6U Front Panel Kit |

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