

The V154 is a single-width, C-size, VXIbus module that combines the performance of a PowerPC-based computer with the functionality of a VXI Slot-0 controller.

Alternatively, on-board strap options enable this module to be used as a VXI-based processor in non-Slot-0 applications.

TYPICAL APPLICATIONS

Aerospace and aircraft testing
High-performance ATE
High-performance data acquisition and control
Applications requiring a real-time kernel
Embedded data acquisition

V154

Embedded PowerPC Slot-0 Controller

A powerful real-time computer in a VXI Controller

FEATURES

- Single-width, C-size, Slot-0 controller
- High-performance PowerPC processor MVME 5500 at 1Ghz or MVME 5100 at 500 Mhz options
- VxWorks™ operating e environment for powerful real-time computing
- Ideal for high-performance data acquisition and control
- Includes Ethernet, RS-232 serial ports, real-time clock, timers and counters
- Available with 512 MB SDRAM, expandable to 1 GB

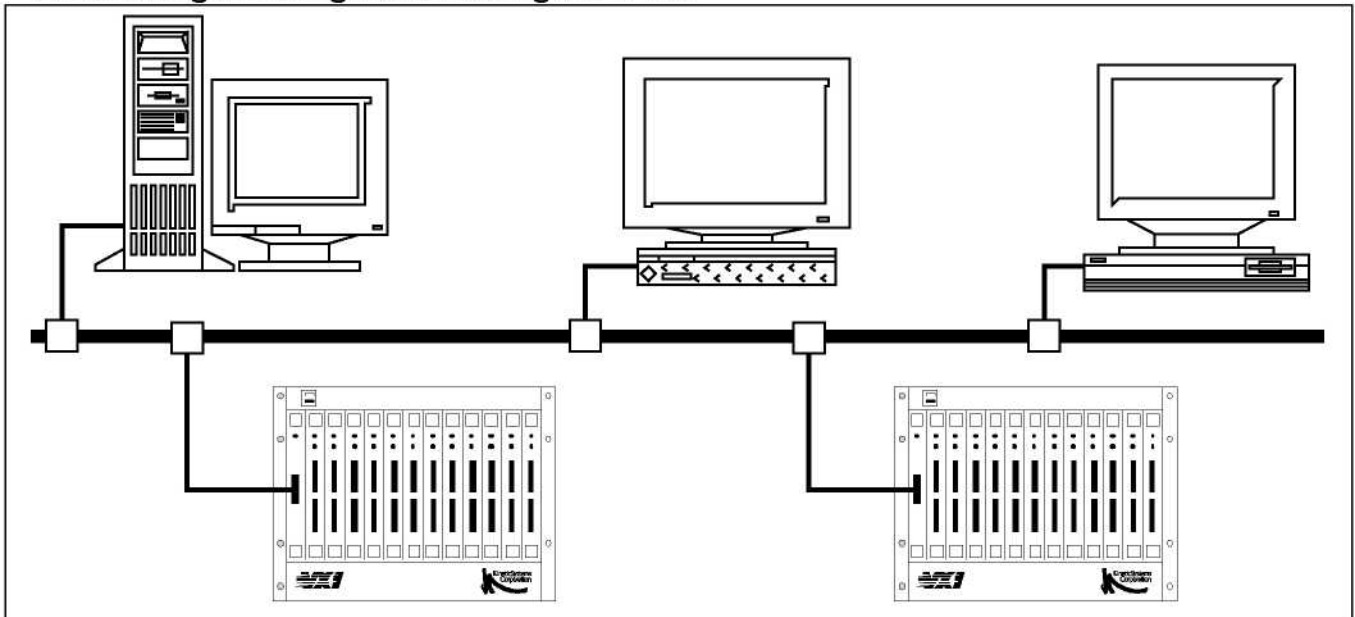
GENERAL DESCRIPTION

The V154 is a single-width, C-size, VXIbus module that combines the performance of a PowerPC-based computer with the functionality of a VXI Slot-0 controller. Alternatively, on-board strap options enable this module to be used as a VXI-based processor in non-Slot-0 applications.

The V154 offers the latest in PowerPC technology, enabling higher levels of performance in a single VXIbus slot. The V154 is ideal for data intensive applications.

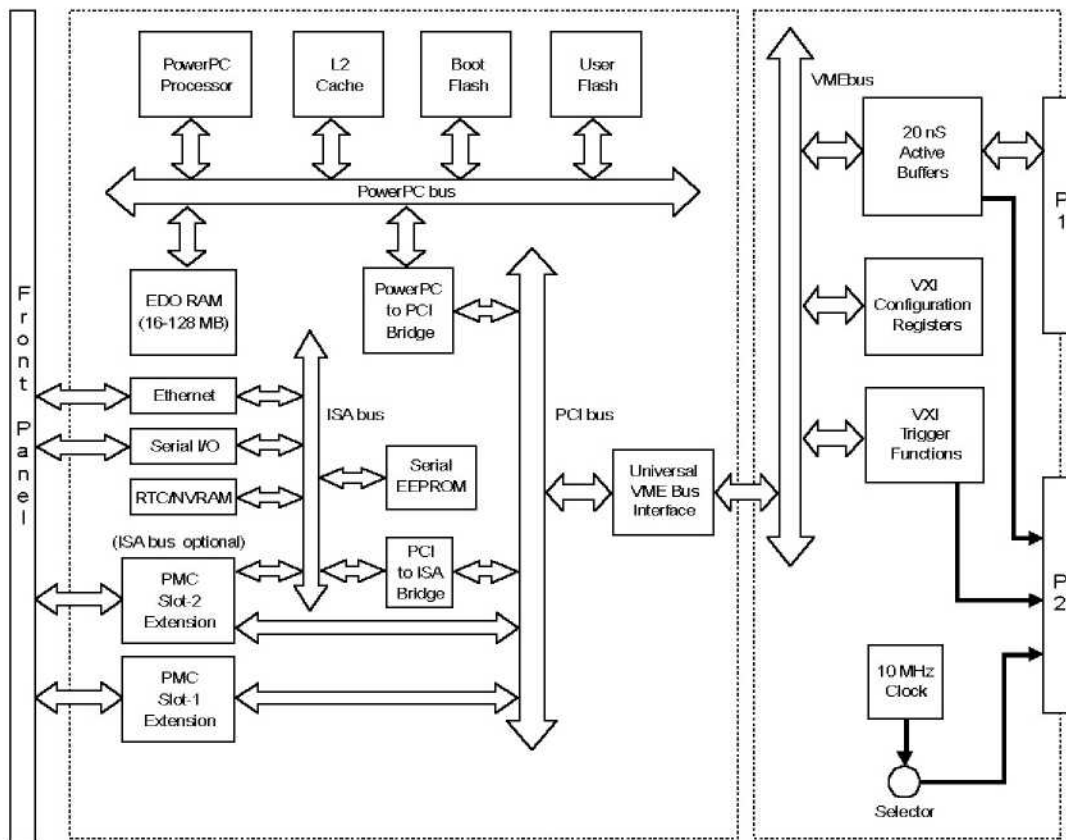
Using the VxWorks™ run-time kernel, the V154 provides an extremely powerful real-time computing environment. In most applications, this controller is connected to a host computer via an Ethernet link using TCP/IP protocol and VxWorks™ to communicate with a host computer. The V154 is an ideal real-time embedded controller for Automatic Test Equipment (ATE) applications, and aerospace and aircraft testing.

A Host-target Configuration using the V154



Item	MVME 5500 Series	MVME 5100 Series
Processor Options	MPC7455 Power PC (1Ghz clock)	MPC7410 Power PC (500 Mhz clock)
SDRAM	512 MB onboard, additional 512 MB available via memory mezzanine card	512 MB onboard, additional 512 MB available via memory mezzanine card
L2 Cache Memory	256KB	2MB
L3 Cache Memory	2MB	None
Bank A Flash	32MB	1 MB
Bank B Flash	8MB	16MB
Counters/Timers	8 Real-Time Counters Watch Dog Timer	4 Real-Time Counters Watch Dog Timer
NVRAM	32 KB NVRAM	32 KB NVRAM
Battery	Battery backed NVRAM	Battery backed NVRAM
PMC Slots	Two for 32/64-bit PMC modules	Two for 32/64-bit PMC modules
Ethernet Interface	Gigabit Ethernet Interface 10/100 Base T Ethernet Interface	Dual 10/100 Base T Ethernet Interface

Serial I/O	Two Serial Ports Front Panel RJ-45	Two Serial Ports Front Panel RJ-45
Additional Features	AltiVec coprocessor for computations Dual independent 64-bit PCI buses Support for processor PMCs	64-bit PCI expansion mezzanine connector On board debug monitor
Power Requirements	+5V 7.0 A -5.2V 270 mA -2V 96 mA +12V 100 mA -12V 100 mA	+5V 5.6 A -5.2V 270 mA -2V 96 mA +12V 100 mA -12V 100 mA
Environmental and Mechanical	Temperature range Operational 0°C to +50°C Storage -25°C to +75°C Relative humidity 0 to 85%, non-condensing, to 40°C Cooling requirements 10CFM Dimensions 340 mm x 233.35 mm x 30.48 mm (C-size VXIbus) Front-panel potential Chassis ground	Temperature range Operational 0°C to +50°C Storage -25°C to +75°C Relative humidity 0 to 85%, non-condensing, to 40°C Cooling requirements 10CFM Dimensions 340 mm x 233.35 mm x 30.48 mm (C-size VXIbus) Chassis ground





RELATED PRODUCTS

Various accessories are available for the V154. Contact the factory for details.

ORDERING INFORMATION

MODEL	DESCRIPTION
V154-AA11	Motorola PowerPC 5100, MPC7410, 500 Mhz, 512 MB, 17 MB Flash
V154-BA11	Motorola PowerPC 5500, MPC7455, 1 Ghz, 512 MB, 40 MB Flash

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