

Single-width, C-size Module that combines the high performance of a Pentium M-based computer with the functionality of a VXI Slot-0 controller. A cost-effective and high-performance Slot-0 controller solution for your data collection needs.

## TYPICAL APPLICATIONS

Aerospace and aircraft testing  
High-performance ATE  
High-performance data acquisition and control

## V155 Embedded Pentium M Slot-0 Controller



Single-width, C-size module that combines the performance of a Pentium M-based computer with the functionality of a VXI Slot-0 controller

## FEATURES

- Single-width C-size module
- High-performance Pentium M embedded processor with clock options 1.1 GHz, 1.6 GHz and 1.8 GHz
- Windows XP Operating System supported
- Ideal for high-performance data acquisition and control
- Dual Ethernet controllers supporting 10BaseT, 100BaseTX and 1000BaseT interfaces
- Two front panel Universal Serial Bus (USB) connections Rev. 2.0
- Up to 2 Gbyte bootable flash on secondary IDE
- Up to 1.5 Gbyte PC1600 DDR SDRAM
- PMC expansion site



**GENERAL DESCRIPTION**

The V155 is a single-width, C-size module that combines the performance of a Pentium M-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 V155's optional External CD-ROM drive allows for the installation of a number of popular programming environments and compilers, including Microsoft Visual C++.

For soft real-time applications, the V155 coupled with the Windows XP operating system is a cost-effective and high-performance Slot-0 controller solution for your data collection needs.

As technology increases the capacity of hard drives changes. Be sure to contact KineticSystems for the latest hard drive offerings.

Item	Specification
Processor Options	Pentium M 1.1 GHz 1.6 GHz 1.8 GHz
DDR SDRAM	Options available with 512 Mbyte, 1 Gbyte and 1.5 Gbyte
Internal Hard Drive	40 GB IDE Hard Drive, contact KineticSystems for latest hard drive offerings
Timers and Watchdog Timer	Two 16-bit timers and two 32-bit timers and software programmable watchdog timer
Compact Flash Memory	Supports up to 2 GB of Compact Flash through secondary IDE port
RTC/NVSRAM	Real Time Clock and 32 KB of nonvolatile SRAM
Ethernet Interface	Dual Ethernet controllers supporting 10BaseT, 100BaseTX and 1000BaseT interfaces
PMC Slot	5 V signaling, types 1 and 2, 32-bit PCI bus, 33 MHz maximum
Graphics Support	Internal Graphics Controller (852 GME chip set) w/ Digital Visual Interface (DVI). Up to 1600 x 1200 Resolution
USB Port	Supports two USB Rev. 2.0
Environmental and Mechanical	
Temperature Range	
Operational	0 to +50 degrees C
Storage	-25 to 75 degrees C
Relative Humidity	0 to 86% non-condensing to 40 degrees C
Dimensions	340mm x 233.35mm x 30.48mm (C-size VXIbus)
Vibration and Shock	
Operating Vibration	9.8m/s <sup>2</sup> (1.0G), 5-500 Hz
Operating Shock	1470m/s <sup>2</sup> (150G)
Non-Operating Shock	6860m/s <sup>2</sup> (700G)
Power Requirements	
+5V	9500 mA
-5.2V	270 mA
-2V	96 mA
+12V	100 mA
-12V	100 mA

ORDERING INFORMATION	
Description	Part Number
VMIC 7807 Pentium M, 1.8 GHz, 1.5 GB, 40 GB Hard Disk	V155-AB14
VMIC 7807 Pentium M, 1.6 GHz, 1 GB, 40 GB Hard Disk	V155-AB13
VMIC 7807 Pentium M, 1.1 GHz, 512 MB, 40 GB Hard Disk	V155-AB12

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