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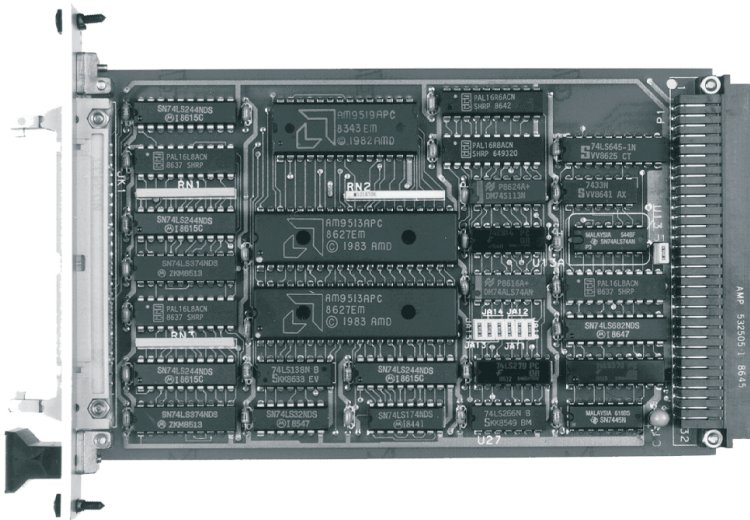
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# XVME-203 Counter Module with Quadrature



## FEATURES

- Single Eurocard (3U) size
- Counting rates up to 5 MHz
- Ten 16-bit counting channels
- Buffered inputs and outputs
- VMEbus interrupts

## APPLICATIONS

- Translators for stepper motors
- Flow meters (turbine type)
- Voltage frequency converters
- Voltage-to-pulse width converters
- Duty-cycle control of heaters
- Quadrature encoders

The XVME-203 is a single-high, VMEbus-compatible board, using two AM9513A timer/counter devices to provide a total of ten 16-bit counting channels. The timer/counter devices are fully programmable and capable of counting at a rate of up to 5 MHz. In conjunction with the timer/counter devices, the XVME-203 employs an AM9519A Universal Interrupt Controller to provide a complete interrupt structure via eight interrupt channels. This interrupt structure allows for the selection of either a fixed interrupt vector for all eight channels or a separate vector for each individual channel.

The XVME-203 can also be used for quadrature detection. Advanced encoding circuitry allows the module to be used with as many as four quadrature transducers simultaneously.

Eight output channels are available to provide a variety of utility functions including: frequency output, one-shot output, frequency division, and pulse generation.

X Y C O M  
V M E

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## PRODUCT SPECIFICATIONS AND RATINGS

### Environmental

	Operating	Nonoperating
<b>Thermal</b>	0° to 65° C (32° to 149° F)	-40° to 85° C (-40° to 185° F)
<b>Humidity</b>	5% to 95% RH, noncondensing	5% to 95% RH, noncondensing
<b>Shock<sup>a</sup></b>	30g peak acceleration, 11 msec duration	50g peak acceleration, 11 msec duration
<b>Vibration 5-2000 Hz<sup>a</sup></b>	.015" (.38 mm) peak-to-peak displacement, 2.5g maximum acceleration	.030" (.76 mm) peak-to-peak displacement, 5.0g maximum acceleration
<b>Altitude</b>	Sea level to 10,000 ft.(3048 m)	Sea level to 40,000 ft.(12192 m)

### Hardware

<b>Power Supply</b>	+5 V DC @ 1.6A typical, 1.8A maximum	
<b>Channels</b>	<ul style="list-style-type: none"><li>• Input: 10 sources (SRC)</li><li>• Output: 8</li><li>• Interrupts: 8</li></ul>	
<b>Timer/Counter Device</b>	(2) AM9513A	
<b>Interrupt Control Device</b>	(2) AM9519A	
<b>Maximum Counting Device</b>	5 MHz	
<b>Buffers</b>	<b>Low-Level Current</b>	<b>High-Level Current</b>
<b>Input</b>	-200 uA	+20 uA
<b>Output</b>	+24 mA	-15 mA

### VME Compliance

- Complies with VMEbus Specification IEEE 1014 Rev. C.1
- A16:D08(0) DTB Slave
- Interrupter - I(1)-I(7)(DYN), ROAK
- Interrupter vector D08(O)(DYN)
- Form factor: SINGLE 6.5" × 3.94" (165.1 mm × 100.01 mm)

## ORDERING INFORMATION

Order Number	Description
<b>XVME-202</b>	Single-High PAMUX Controller Module
<b>includes</b>	6U front panel kit for the XVME-202

XycomVME, Inc.  
710 N. Maple Rd.  
Saline, MI 48176  
Ph. 734.944.1942  
Fax. 734.944.1999

XycomVME, Inc. a company of the



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