

Xycom XVME-230

Intelligent Counter Module



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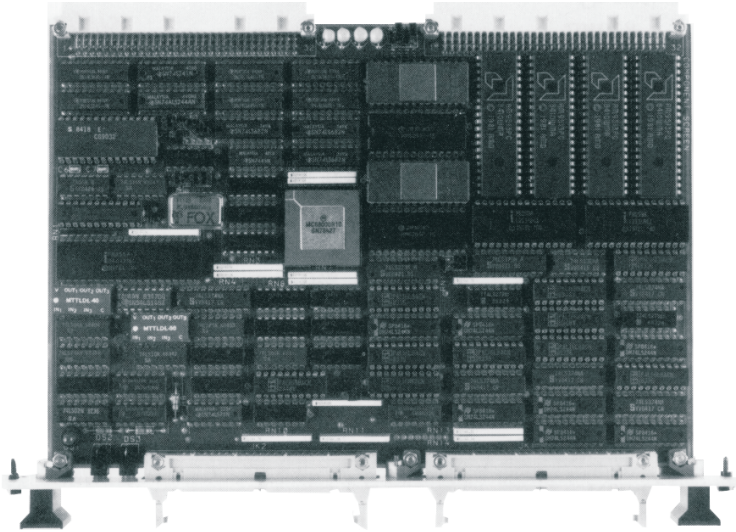
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XVME-230

Intelligent Counter Module



FEATURES

- 10 MHz 68000 CPU
- 16 independent counting channels
- Counting rates up to 5 MHz
- Firmware-selected functions

Measurement

- Period
- Frequency
- Pulse width
- Position

Control

- Stepper motor
- Duty cycle

Utility

- Frequency output
- One-shot output
- Frequency division
- Periodic interrupt

APPLICATIONS

- Translators for stepper motors
- Flow meters (turbine type)
- Quadrature encoders
- Voltage-to-frequency converters
- Voltage-to-pulse width converters
- Heaters

The XVME-230 Intelligent Counter Module is a VMEbus compatible intelligent I/O module which provides a variety of high performance, high-level counting functions. The module's architecture features XycomVME's intelligent I/O kernel which can significantly enhance system performance by itself handling many time-consuming functions that would otherwise be performed by the host processor. This on-board intelligence also gives the XVME-230 exceptional measurement and stepper motor control performance.

Many industrial applications require that time-varying waveforms be either measured or generated. The XVME-230 module is capable of handling many of these measurement functions simultaneously. The module contains four programmable counting circuits. Each circuit can handle four CLOCK inputs and four GATE inputs, allowing as many as 16 separate counting functions to operate at once.

X Y C O M
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PRODUCT SPECIFICATIONS AND RATINGS

Environmental

	Operating	Nonoperating
Thermal	0° to 64° C (32° to 147° F)	-40° to 85° C (-40° to 185° F)
Humidity	20% to 90% RH, non-condensing	20% to 90% RH, non-condensing
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 \pm 5%, 4.6 A typical, 5.2 A maximum
System Time Base	• Frequency: 5 MHz • Accuracy/Stability: \pm .005%

Function	Range	Accuracy
Event Counting	Circuit input range: up to 5 MHz	Count range returned: Up to 216 or up to 232
Frequency Measurement	Circuit input range: up to 5 MHz	• 10 Hz to 1 KHz: 1.0% • 1 KHz to 5 MHz: 0.15%
Position Measurement	SIN or COS input range: up to 500 KHz	\pm 1/4 wave
Stepper Motor Control	Maximum step rate: 65535 Hz	• 10 Hz to 1 KHz: .025% • 1 KHz to 65535 Hz: 1.0%
Period Measurement	Circuit input range: 850 sec to 500 nsec	▪ 20 usec to 819.2 usec: 1.0% ▪ 819.2 usec to 858 sec: .025%
Pulse-width Modulation	Circuit output range: up to 5 KHz	Duty cycle accuracy: .01%

Buffer	Low-Level Current	High-Level Current
Input	-200 μ A	+20 μ A
Output	+24 mA	-15 mA

VME Compliance

- Complies with VMEbus Specification IEEE1014 Rev.C.1
- A24/A16:D16/D08(E0) DTBslave
- Interrupter I (1)-I(7)(DYN), ROAK
- Interrupt vector D08(O)(DYN)
- Utility signal SYSFAIL
- Form factor: DOUBLE 233.7mm \times 160.0mm (9.2" \times 6.3")
- Conforms to XycomVME Standard I/O Architecture

ORDERING INFORMATION

Order Number	Description
XVME-230	Intelligent Counter Module

XycomVME, Inc.
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XycomVME, Inc. a company of the



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