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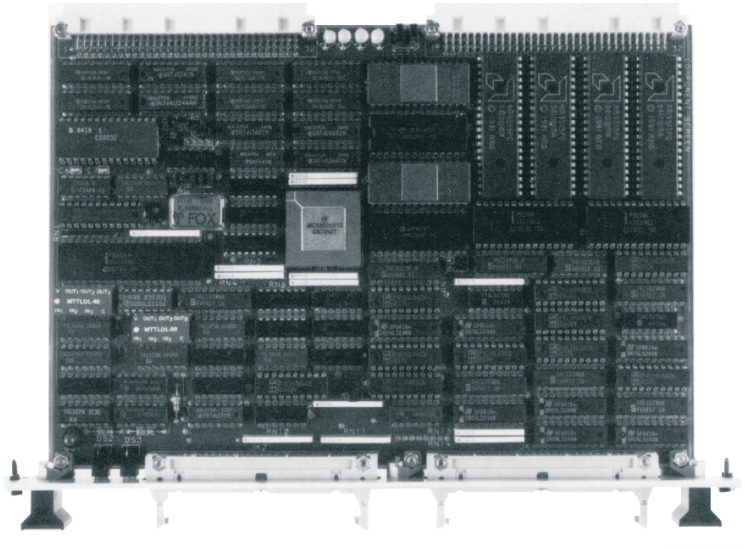
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Find the *Acromag / Xembedded / Xycom XVME-230* at our website: ***Click HERE***

# 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.

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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 ±5%, 4.6 A typical, 5.2 A maximum |
| **System Time Base** | • Frequency: 5 MHz<br>• Accuracy/Stability: ±.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%<br>• 1 KHz to 5 MHz: 0.15% |
| **Position Measurement** | SIN or COS input range: up to 500 KHz | ±1/4 wave |
| **Stepper Motor Control** | Maximum step rate: 65535 Hz | • 10 Hz to 1 KHz: .025%<br>• 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%<br>▪ 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 uA | +20 uA |
| **Output** | +24 mA | -15 mA |

## *VMECompliance*

- Complies with VMEbus Specification IEEE1014 Rev.C.1
- A24/A16:D16/D08(EO) DTBslave
- Interrupter I (1)-I(7)(DYN), ROAK
- Interrupt vector D08(O)(DYN)
- Utility signal SYSFAIL
- Form factor: DOUBLE 233.7mm × 160.0mm (9.2"×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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Saline, MI 48176
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Fax. 734.944.1999

Web site: www.xycomvme.com

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