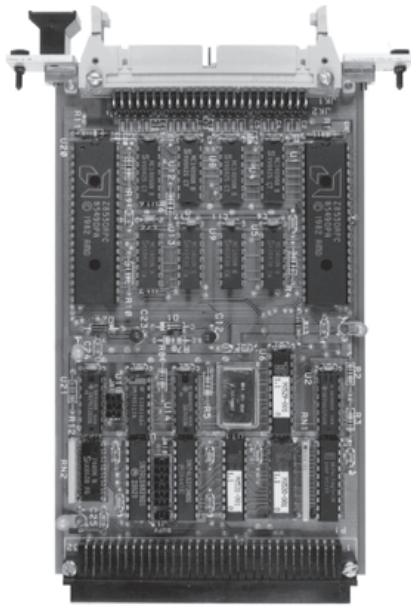
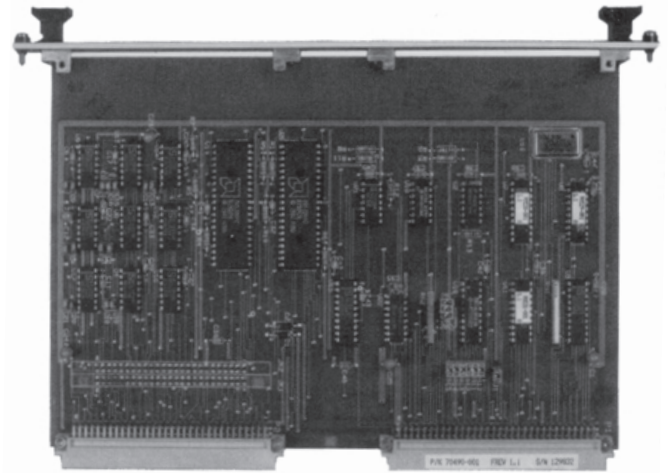


# XVME-400/401/490/491 Quad Serial I/O Modules



XVME-400



XVME-490

## Features

- Four serial ports
- Single (3U) size (XVME-400/401) or double (6U) size (XVME-490/491)
- Asynchronous, monosynchronous, bisynchronous, HDLC, SDLC operation
- Zilog Z8530 Serial Communication Controller
- Modem control
- RS-232C or RS-422A/RS-485-compatible
- Independent baud rate generators for each signal channel

## Applications

- Terminal or modem interface
- Serial printer interface

## Overview

The Xycom Automation XVME-400 and XVME-401 Quad Serial I/O Modules are single-high, single-wide VMEbus modules that provide a VMEbus system with four serial communication channels. The XVME-400 and XVME-401 differ only in their communication interface: the XVME-400 provides four RS-232C serial ports, while the XVME-401 provides four RS-422A/RS-485 serial ports.

Both modules contain two Z8530 Serial Communication Controller (SCC) chips which provide a variety of communication modes, including asynchronous, byte-synchronous, and bit-oriented protocols. Each channel is independently programmable and has its own baud rate generator and modem signal controls.

The VMEbus interface directly maps the Z8530 SCC chips into the short I/O address space, starting on a jumper-selected 1 Kbyte boundary. The modules can also be jumpered to generate an interrupt on any of the seven VMEbus interrupt levels. The two Z8530 SCC chips can generate a total of 16 different interrupt vectors.

For applications not allowing I/O to be routed out the front panel, the XVME-490 and XVME-491 offer the same functionality as the XVME-400 and XVME-401. In a 6U form factor, the I/O is routed via the VMEbus P2 connector on the back of the board.

## Hardware Specifications

**Number of Channels** 4

**Serial Device** Zilog Z8530 SCC

### Level Compatibility

XVME-400/490 RS-232C  
XVME-401/491 RS-422A/485

### Maximum Baud Rate

Internal, async 57.6 Kbaud  
Internal, sync 500 Kbaud  
External, async 57.6 Kbaud  
External, sync 500 Kbaud

### Modem Control Signals

XVME-400/401/490 RTS, CTS, DCD, DTR  
XVME-491 RTS, CTS, DCD

### Power Requirements

XVME-400/490 +5 V @ 1.1 A typ., 1.3 A max.  
+12 V @ 100 A typ., 110 A max.  
XVME-401/491 +5 V @ 1.4 A typ., 1.6 A max.

## VMEbus Compliance

- Complies with VMEbus Specification, IEEE 1014
- A16:D08(O) DTB Slave
- Interrupter I(1)-I(7)(STAT), ROAK
- Interrupt vector D08(O)(DYN)
- Form Factor:
  - XVME-401 and XVME-401: SINGLE  
3.9" × 6.3" (99.06 mm × 160.02 mm)
  - XVME-490 and XVME-491: DOUBLE  
9.2" × 6.3" (233.68 mm × 160.02 mm)

### Warranty Information

The XVME-400, XVME-401, XVME-490 and XVME-491 each carry a two-year parts and labor warranty.

## Environmental Specifications

### Temperature

Operating 0° to 65° C (32° to 149° F)  
Nonoperating -40° to 85° C (-40° to 185° F)

**Humidity** 20% to 80% RH, non-condensing

### Altitude

Operating Sea level to 10,000 ft. (3048 m)  
Nonoperating Sea level to 40,000 ft (12192 m)

### Vibration

5 to 2000 Hz  
Operating .015" (.38 mm) peak-to-peak displacement  
2.5 g (maximum) acceleration  
Nonoperating .030" (.76 mm) peak-to-peak displacement  
5.0 g (maximum) acceleration

### Shock

Operating 30 g peak acceleration  
11 msec duration  
Nonoperating 50 g peak acceleration,  
11 msec duration

## Ordering Information

XVME-400 4 Channel RS-232C Serial I/O  
XVME-401 4 Channel RS-422A Serial I/O  
XVME-931 2 Channel RS-232C Cable for XVME-400  
XVME-932 2 Channel RS-422A/485 Cable for XVME-401  
XVME-490 6U Version of XVME-400 with I/O Routed to the VMEbus P2 Connector  
XVME-491 6U Version of XVME-401 with I/O Routed to VMEbus P2 Connector

**XYCOM AUTOMATION, INC.**  
750 North Maple Road  
Saline, Michigan 48176-1292  
Phone: (734) 429-4971  
FAX: (734) 429-1010  
Call toll-free: 1-800-AT-XYCOM  
<http://www.xycomautomation.com/>

**XYCOM CANADA, INC.**  
461 North Service Road West, Unit B36  
Oakville, Ontario L6M 2V5 Canada  
Phone: (905) 825-0281  
FAX: (905) 825-0282

**XYCOM AUTOMATION LTD.**  
NORTHERN EUROPE  
21 Tenter Road, Moulton Park  
Northampton NN3 6AX England  
Phone: +44-1604-790-767  
FAX: +44-1604-790-722

**XYCOM AUTOMATION S.r.L.**  
SOUTHERN EUROPE  
Via Chambery 93/107/U  
10142 Torino, Italy  
Phone: 39-011-770-5311  
FAX: 39-011-770-53270