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

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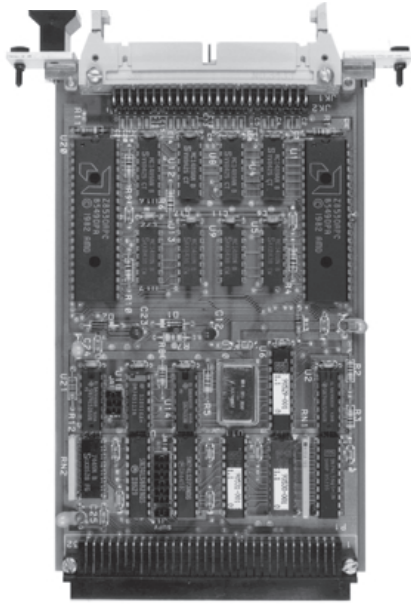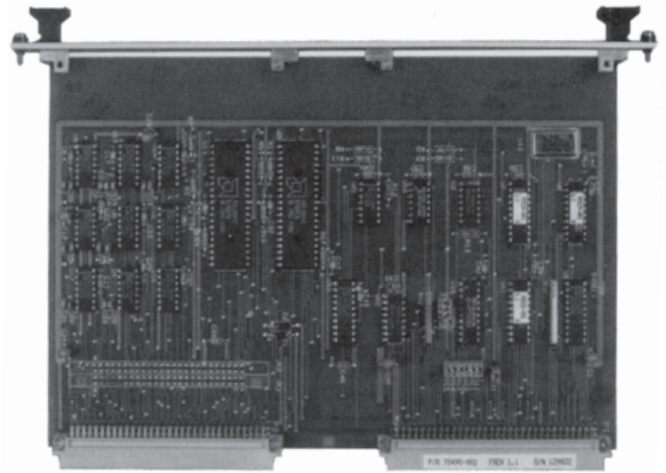
XVME-400

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 XycomVME 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 Communica-
tion 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 0º to 65º C (32º to 149º F)
  Nonoperating   -40º to 85º C (-40º to 185º 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-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

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        group