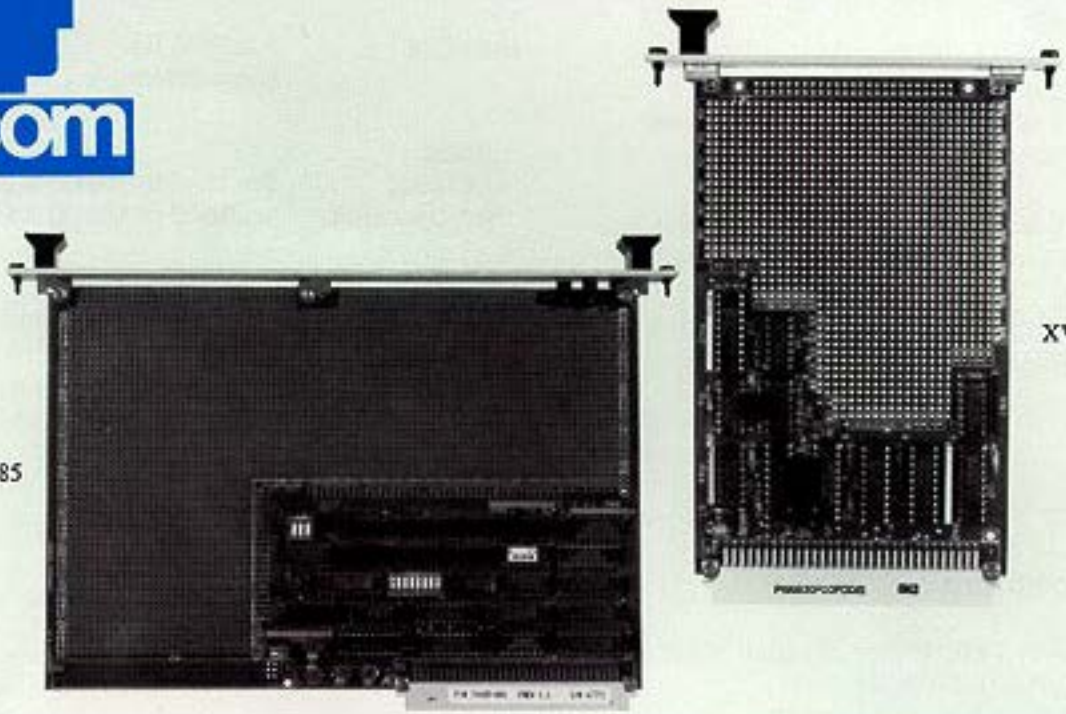
XVME-085/087 Prototyping Modules



Features

- Supports all signals needed to implement:
  - Timing generation
  - Data, address, and control buffers
  - VMEbus interrupter support
  - Jumper/Switch selectable address decode circuitry
- Implements Xycom Standard I/OArchitecture
  - Module ID
  - Status/control register
  - Module status LEDs
- Prototype wiring grid
- Simple applications circuit interface

Applications

- Parallel interface
- Proprietary interface
- Motion controller (resolver interface)
- Low-volume production of special application VMEbus modules

Overview

The XVME-085 and 087 Prototyping Modules are powerful, yet inexpensive, prototyping modules for use on the VMEbus. You get all of the necessary circuitry to generate all of the signals required by the VMEbus specification for 8- and 16-bit slaves. By adding application circuitry, you can design your own VMEbus slave module.

The heart of the XVME-085 and 087 Prototyping Modules is the Non-Intelligent Kernel (NIKL). This is a proven design that Xycom uses in its standard non-intelligent VMEbus I/O modules. The modules provide for either a 35.5 inch (XVME-085) or 11.5 inch (XVME-087) grid prototyping area suitable for wire wrapping of prototyping components.

Hardware Specifications

Prototyping Area	085	087
Square inches	35.5	11.5
14-pin equivalents	75	32
Percentage	72	68

Access Time (to DTACK)	
Interrupt acknowledge	425 nsec max.
DS to DTACK	458 nsec max.
Write cycle	665 nsec max.
DS to DTACK	333 nsec max.
Read cycle	535 nsec max.
DS to DTACK	333 nsec max.

Power

+5VDC, 700 mA typ.

VMEbus Compliance

- Complies with VMEbus Specification IEEE 1014
- A16:D16/D08(E0) DTB Slave
- Interrupter - I(1)-I(7)(DYN) ROAK
- Interrupter Vector - D08(O)
- Utility Signal -SYSFAIL
- Form Factor: SINGLE
  165.1 mm x 100.1 mm
  (6.5 in x 3.94 in)
  Form Factor: DOUBLE
  233.35 mm x 160 mm
  (9.2 in x 6.3 in)

Warranty Information

The XVME-085 and 087 carry a two-year warranty.

Environmental Specifications

Temperature	
Operating	0° to 65° C (32° to 149° F)
Non-operating	-40° to 85° C (-40° to 158° F)
Humidity	5 to 95% RH non-condensing
Altitude	
Operating	Sea level to 10,000 ft (3048m)
Non-operating	Sea level to 50,000 ft (15,240m)
Vibration	
Operating	.015 in p-p displacement 2.5g peak (max) acceleration
Non-operating	.030 in p-p displacement 5.0g peak (max) acceleration
Shock	
Operating	30 g peak acceleration, 11 msec duration
Non-operating	50 g peak acceleration, 11 msec duration

Ordering Information

XVME-085: 6U VMEbus Prototyping Module

XVME-087: 3U VMEbus Prototyping Module

Note: For Prototype Debugging, use the Xycom XVME-090 Extender Module

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