

Multifunction Module - E2010 Series

- MULTIFUNCTION MODULE FOR E2010 SYSTEMS
- 48 HIGH CURRENT RELAY DRIVERS PER MODULE
- 16 BIT DIGITAL INPUT AND OUTPUT PORTS PER MODULE
- 4 FREE RELAYS PER MODULE

The E2010 Multifunction module is intended for providing control of multiple functions within an Intepro 9000 system. In situations that require a variety of control functions, this module offers a more cost effective solution than fitting separate Digital I/O cards, Relay cards and Driver cards to cover the same utility functions. This is available as an RE2010 module which is for a 6U high rack or as a 1U standalone Ethernet Instrument.

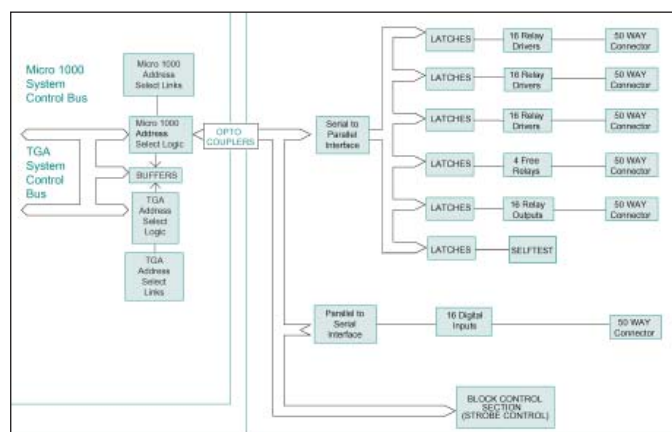
In addition, the Multifunction module could be used to control special "Black Boxes" that are developed for customer specific E2010 solutions. In this way special units such as Turbo Variacs or AC Resistor selectable loads are controlled directly by the Multifunction module and the "Black Box" unit looks like another E2010 module to the software.

For each Multifunction module there are forty eight (48) open collector relay driver outputs. These relay drivers are arranged in three blocks of sixteen. Each relay driver pin is rated up to 48V/250mA rating.

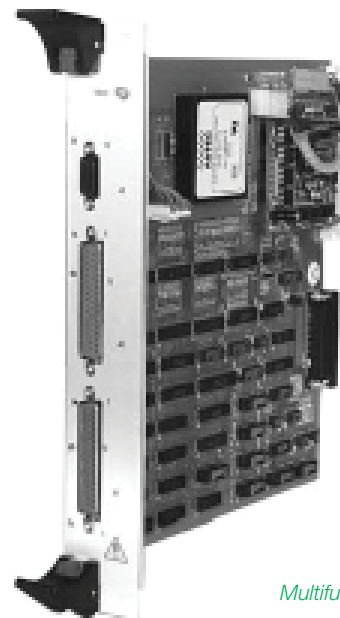
In addition, four (4) programmable single pole relays are available on each module for utility switching.

Each Multifunction module contains a separate sixteen (16) bit input and output port. These non isolated ports are hard wired for TTL logic levels.

Calibration is achieved via software routines and offset adjust-



Multifunction module Block Diagram



Multifunction Module

ments. There are no potentiometers on the module.

The calibration constants for the Multifunction module are stored in EEPROM on the module and therefore travel with each circuit. This can significantly reduce the time involved in calibrating a system in the field.

The Multifunction module is fully supported by PowerStar 5 software supplied by Intepro and is designed for simple plug-in insertion into an E2010 rack.

User connection to the module is via two 50 Way D Type connectors.

Technical Specifications

Free Relays

Voltage Rating	100VDC
Current Rating	1A Max

Relay Drivers - 48 per module

Voltage Rating	48VDC Max
Current Rating	250mA Max

Digital I/O - 1 input and 1 output port (TTL line)

Output	2.16mA
Input	0.7mA
Num. of bits	16 per port

Operating Conditions

Operating Temperature	5°C to 40°C
Humidity	10% to 85% relative
Storage Temperature	25°C to 70°C
Dimensions	161mm(H) x 50mm(W)

Ordering Information

Part Number	721-0030 (for a 6U Rack) 722-0030 (for a 1U Assembly)
Description	E2010 Digital I/O Module

INTEPRO
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www.InteproATE.com

INTEPRO SYSTEMS

1530 S. Lyon Street
Santa Ana, CA 92705
USA
Tel: +1.714.679.9749
Fax: +1.714.953.3150

EU/IRELAND

Intepro Systems
Lonsdale Road,
National Technology Park
Limerick / Ireland
Tel: +353.61.33.22.33
Fax: +353.61.33.25.84

UNITED KINGDOM

Intepro Systems
1 Lakeside Business Park
Swan Lane, Sandhurst
Berkshire GU47 9DN / UK
Tel/Fax: +44.1252.875.600

CHINA

No.2405, Block D
Shahe Century Holiday Plaza
Nanshan District
Shenzhen, China 518053
Tel: +86 755 86398564
Fax: +86 755 86398567