



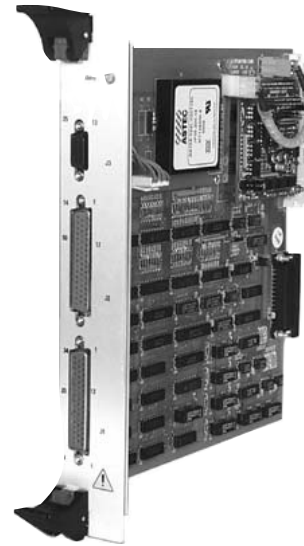
## Digital I/O Module

- **Multipurpose/Multifunction module for Intepro 9000 Systems**
- **48 high current relay drivers per module**
- **16 bit digital input and output ports per module**
- **4 free relays per module**

The Intepro 9000 Digital I/O 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.

In addition, the Digital I/O module could be used to control special "Black Boxes" that are developed for customer specific Intepro 9000 solutions. In this way special units such as Turbo Variacs or AC Resistor selectable loads are controlled directly by the Digital I/O module and the "Black Box" unit looks like another Intepro 9000 module to the software.

For each Digital I/O module there are forty eight (48) relay driver outputs. These relay drivers are arranged in three blocks of sixteen. Each relay driver pin has a 48V/250mA rating.



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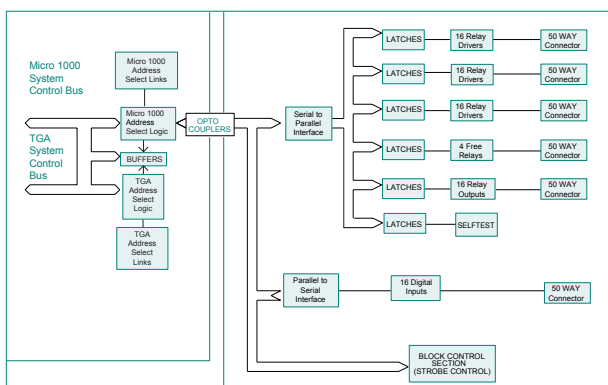
In addition, four (4) programmable single pole relays are available on each module for utility switching.

Each Digital I/O module contains a separate sixteen (16) bit input and output port. These non isolated ports are hardwired for TTL logic levels.

Calibration is achieved via software routines and offset adjustments. There are no potentiometers on the module. The calibration constants for the Digital I/O 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 Digital I/O module is fully supported by PowerStar 5 software supplied by Intepro and is designed for simple plug-in insertion into an Intepro 9000 hybrid rack.

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



**Technical Specifications**

<b>Free Relays</b>	4 per module
<i>Voltage Rating</i>	100VDC
<i>Current Rating</i>	1A Max
<b>Relay Drivers</b>	48 per module
<i>Voltage Rating</i>	48VDC
<i>Current Rating</i>	250mA Max
<b>Digital I/O</b>	1 input and 1 output port (TTL line)
<i>Output</i>	2.16mA
<i>Input</i>	0.7mA
<i>Num. Of bits</i>	16 per port
<b>Operating Conditions</b>	
<i>Operating Temperature</i>	5°C to 40°C
<i>Humidity</i>	10% to 85% relative
<i>Storage Temperature</i>	-25°C to 70°C
<i>Dimensions</i>	161mm(H) x 50mm(W)
<b>Ordering Information</b>	
<i>Part number</i>	714-0006
<i>Description</i>	Intepro 9000 Digital I/O Module DIO 9010



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