

TGA Multifunction Module

TGA 706-0030

- **Ideal multipurpose module for ATE Systems**
- **Plug in module for TGA Architecture¹**
- **48 high current relay drivers per module**
- **16 bit digital input and output per module**
- **Two 12 bit programmable DAC's per module**
- **Four free relays per module**

The TGA Multifunction module is intended for providing control of multiple functions within an ATE system. In situations that require a variety of control functions this module is much cheaper than fitting separate Relay cards and Driver cards to try to cover the same utility functions.

In addition Intepro frequently use this module to control special "Back Boxes" that are developed for customer specific ATE solutions. In this way special units such as *Turbo Variacs* or *AC Resistor selectable loads* are controlled directly by a multifunction module and the "Black Box" unit looks like another TGA module to the software and can be controlled directly on the Micro 1000 bus or VXI bus.

Each module contains forty eight (48) relay driver outputs. These relay drivers are arranged in three blocks of sixteen. Each relay driver pin has a 50V / 500mA rating.

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

Each module contains a separate sixteen (16) bit input and output port. Unlike the Micro 1000 digital I/O module which has selectable logic levels and programmable bi-directional pins, this module has separate ports for Input and Output and both ports are hardwired for TTL logic levels. Nevertheless in the simple control applications that this module is intended for this level of digital input / output control is generally adequate.



Two (2) twelve bit programmable DAC's (digital to analog converters) are also available on each module. This facilitates control scenarios that require an analog signal. Typical examples would be controlling DC power supplies or setting threshold levels on a comparator circuit.

Calibration of the module is achieved via software routines and offset adjustments. There are no potentiometers on the module. The calibration constants for the 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.

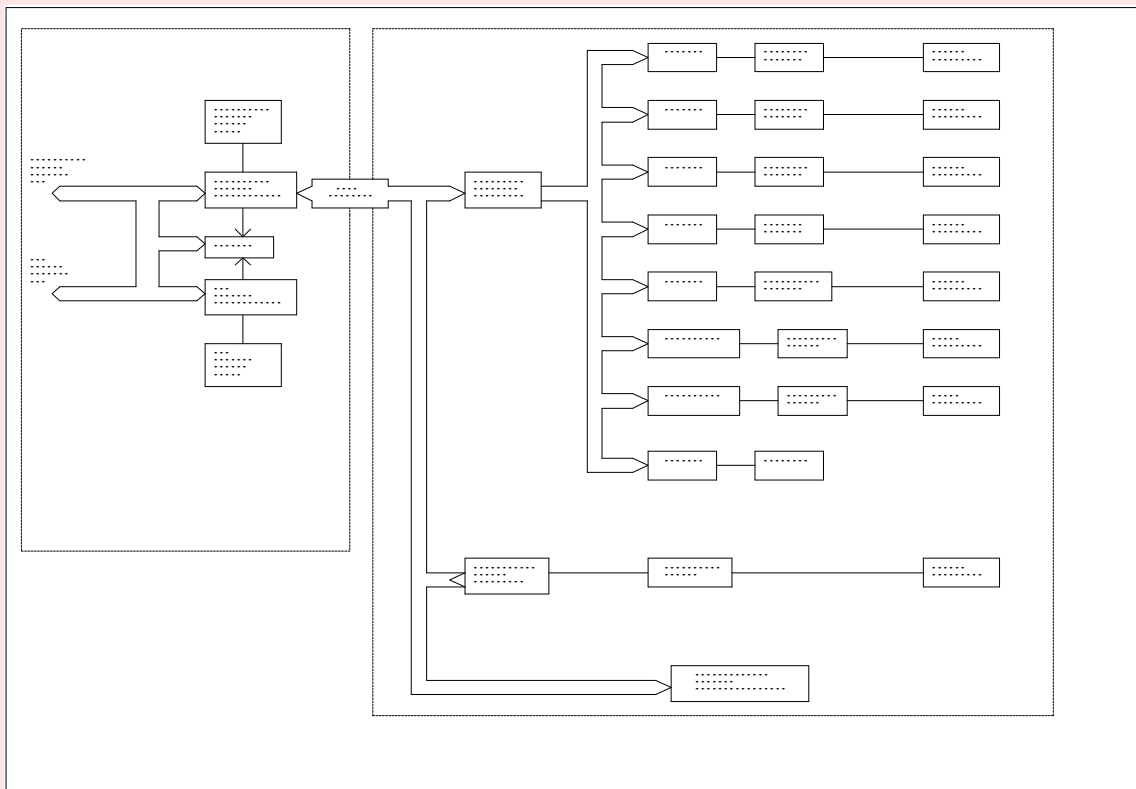
The module is fully supported by the POWERSUITE and POWERSTAR software platforms supplied by Intepro.

The module is designed for simple plug in insertion into a TGA backplane system (low cost) or into any standard VXI backplane.

User connection to the module is via two 50 Way D Type connectors. This facilitates easy insertion and removal from the ATE system.

Technical Specifications

Relay Drivers : Voltage Current	48 per module 50V DC Max 500mA Max	Digital I/O : Logic level Num. Of bits	1 input and 1 output port TTL 16 per port
Free Relays : Relay Form Voltage Current	4 Per module Single pole Double Throw 100V AC/DC 0.5A Max	Programming DAC's : Num. Of Bits Voltage Current	2 per module 12 Bits 0-10V 20ma
Operating Temp :	0°C to 55°C	Humidity :	10% to 85% Relative
Storage Temp :	0°C to 70°C		



Ordering information

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Options

¹ see separate data sheet on TGA backplane



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