

TGA Universal DC Driver

- Fully populated module can drive,8 OEM DC sources or high power OEM loads
- Plug in module for TGA Architecture¹
- Available as TGA or VXI message based module²
- Each driver circuit independently isolated (optically)
- Remote sense compensation and programmable current limit
- 3 programmable resistance input ranges
- Modular configuration, driver boards added to suit application



The TGA Universal driver is capable of driving multiple DC sources and high power OEM loads. The module has a modular structure consisting of a mother board and plug on DC driver daughter cards.

The mother board contains the interface circuitry and control electronics to drive all of the plug on daughter cards.

Each DC daughter card can drive two DC sources or OEM loads (4 isolated voltage outputs) A maximum of four (4) DC daughter boards can be added to each mother board.

Each driver circuit has 12 bit resolution and is optically isolated from the other driver circuits on the module. All the driver circuits facilitate remote sense compensation to ensure accurate programming at the DUT input.

Each DC driver circuit has the following features;

- 12 bit Voltage control output
- 12 bit Current control output
- Remote sense compensation
- Pulse input (for modulation)

- 50Khz signal bandwidth
- Output voltage selectable (0.5V to 12V)
- Driver outputs optically isolated

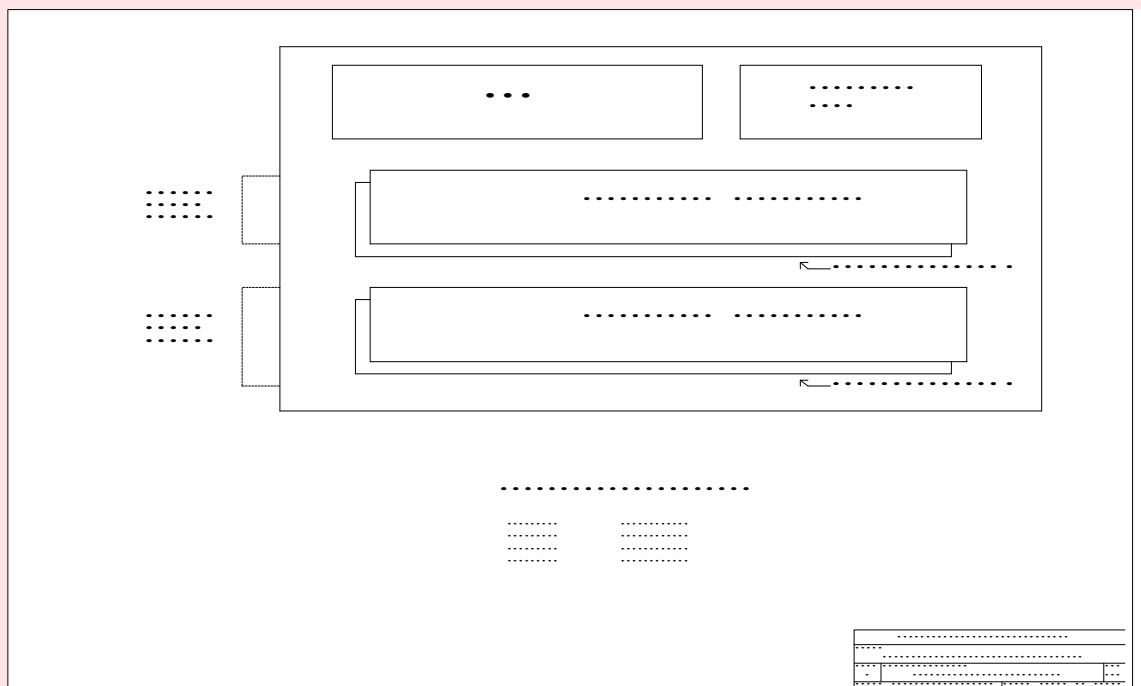
The module is fully supported by the POWERSUITE and POWERSTAR software platforms supplied by Intepro.

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

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 with several loads or sources installed.

The TGA universal driver is a very cost effective means of driving sources and loads in an ATE system that has a requirement for multiple DC sources or Loads.

Technical Specifications	
Driver DAC's per board :	4
Programmable Resistance Input Ranges:	
Range Gains :	1, 1/5 and 1/25
Max Vsense :	250V DC
Output voltage :	
Range :	0.5V -> 12V (selectable 0.5V steps)
Resolution :	(Output fullscale) / 4095
Accuracy :	+/- 0.025%
Pulse / Modulation Input :	
Max Voltage:	10V (for 100% modulation)
Max Freq. :	50Khz
Signal Bandwidth :	50Khz
Operating Temp.	0°C to 55°C
Max Current Drive :	20mA
Storage Temp.	0°C to 70°C
Size	233mm x 220mm x 45mm TGA module (H x D x W) C Size, Double Slot VXI module
Humidity	10% to 85% Relative



Ordering information

709-0034 TGA Universal DC Driver Module

Options

¹ see separate data sheet on TGA backplane

² Requires TGA/VXI adapter module



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