TGA Power Commander Module

TGA 707-0021

- **VXI Message based Commander Module**
- **Plug in module for C size VXI rack**
- **Drives TGA and Micro 1000 Racks from VXI Bus**
- **Facilitates Hybrid systems (VXI and TGA mixed)**
- **Maximises benefits of VXI and TGA rack systems**
- **Cost effective way to convert older systems to VXI**

The TGA Power System Commander module provides a means of driving TGA racks and Micro 1000 racks directly from a VXI backplane. The Power System commander module is itself a true message based VXI single width module. The Commander module can accept VXI commands and translate them directly into Micro 1000 bus protocols for driving TGA and Micro 1000 backplanes directly.

The Power System Commander module is frequently used in test systems where the user want to maximise the benefits of both TGA and VXI architectures at minimum cost. A typical scenario, for example, would be where all of the loads and high power switching modules are located in some TGA racks within the system and all of the high speed measurement modules are located in a VXI rack. Generally speaking the TGA rack is much more effective at dissipating heat less sensitive to interference from high power switching. Trying to locate these types of modules into a VXI rack directly could prove difficult, expensive, and may cause problems for neighboring measurement modules located in the VXI rack.

Inserting a Power System Commander module into the VXI rack will allow ALL of the external TGA racks (and Micro 1000 racks) to appear as message based instruments to the controlling PC.

The VXI message based commands that are sent to the Power System Commander are converted locally to Micro 1000 bus commands using a 68000 microprocessor. This means that the process is extremely fast and the overhead involved in this conversion process is generally insignificant in terms of the total DUT test time.

The Power System Commander represent a general system strategy that Intepro apply to try to maximise the benefits of all Industry standard technologies for its end users. Many of the system solutions that Intepro deliver contain several backplane, or architecture, structures. This can help to ensure that systems supplied maximise Cost, Accuracy, Speed and Supportability for the user.
The Power System Commander module plugs directly into the VXI backplane and one 25 way ribbon cable is used to connect to the Micro 1000 bus (daisy chained to each TGA rack)

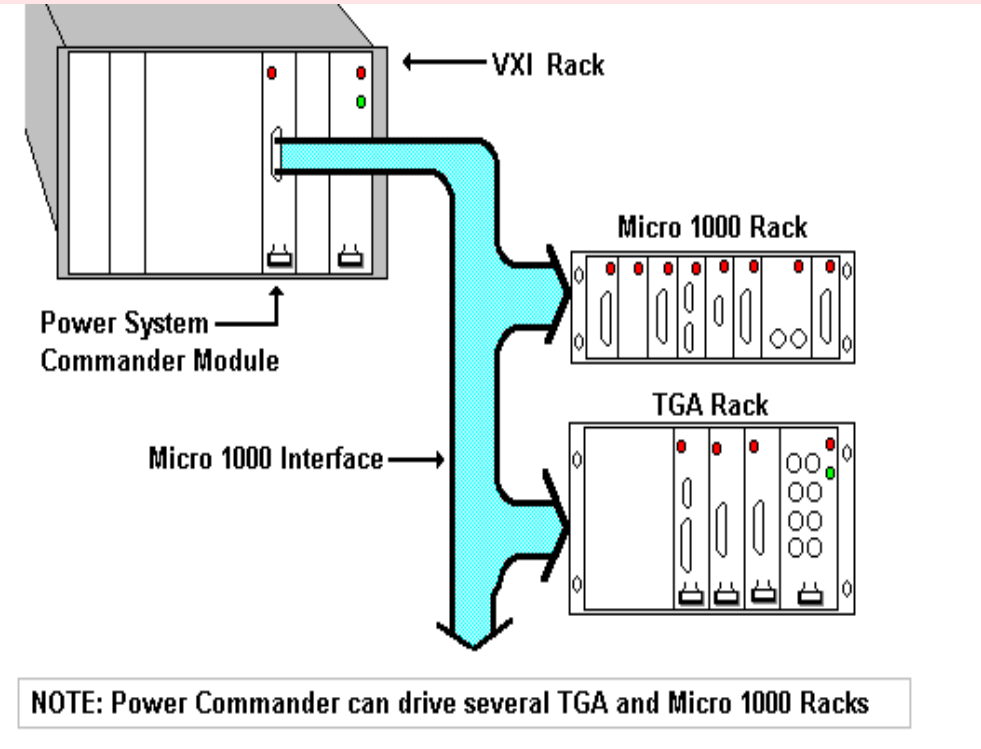
The System Commander module is also particularly useful in situations where a users wished to upgrade an older system to a VXI architecture. Using a Commander module means that a VXI rack and VXI modules, can be integrated directly with existing Micro 1000 or TGA modules. In short the user does not have to buy a new system, he can upgrade his system to be VXI based.

Selecting the right architecture (or combination of architectures) for a given Power Supply or EMC test application can often be a complicated and involved task. Intepro sales personnel are always on hand to help a user select a configuration that maximises benefits to suit his requirements.

This module is designed to be used in conjunction with a National Instruments MXI slot zero controller.

Technical Specifications

VXI Bus :			
Revision Level :	1.3	**Size :**	C Size Single Slot VXI module
Device Type :	Message Based	**Power :**	+5V @ 1A +12V @ 100mA (+ 100mA per Micro Rack) +/- 24V @ 30mA
Configuration :	Dynamic and Static address configuration. Programmable Interrupter (A16 Slave)	**Operating Temp :**	0°C to 55°C
Local Bus Class :	Analog Medium	**Storage Temp :**	0°C to 70°C
Model Code :	101_h	**Humidity :**	10% to 85% relative
Manufacturer ID :	$F64_h$		



Ordering information

707-0021 TGA Power System Commander Module

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