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Giga-tronics

Technical Datasheet



GT-8300A

RF / Microwave Configurable Switching Sub-Systems

3U chassis with LAN and IEEE-488 control

34867 Rev.A / US101129

GT-8300A

3U Chassis with LAN and IEEE-488 control

FEATURES

- Built-in Resource Manger
- High Signal Integrity Backplane
- Low Noise and High Isolation
- Star Switching
- Ultra-High Density
- Point-to-Point Software
- Ultra-Quiet Power Supply

OVERVIEW

A 3U (5.25" high), chassis which comes with a LAN and IEEE-488 interface with a built-in Resource Manager. It has four slots which will support any of Giga-tronics ASCOR line of 3000 series switch modules. There are a wide variety of switch modules from DC to 40 GHz and power switching up to 20 AMPS as well as DMM and frequency counter instrumentation. Features Include:

- Power supply indicators
- Visual and audio over heat indicators
- Installed slot indicators

Low noise and excellent isolation

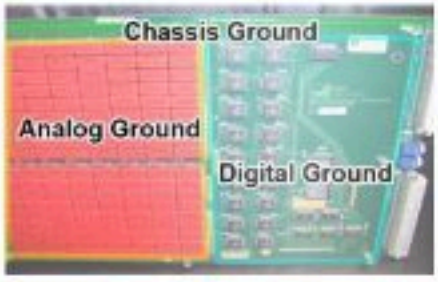
Giga-tronics treats each switch as a precision transmission line. In addition, signal lines, control lines, and grounds are separated on different printed circuit board layers. Having low noise, high isolation switching enables Giga-tronics customers much higher bandwidth (often > 5x) than competitors with similar switch configurations. The Model GT-8300A incorporates the industry's highest signal integrity backplane. Its 12 layers ensure signal separation while contributing to the Model GT-8300As excellent EMI suppression.

Star Switching

Re-purpose previously dedicated pins with unique switch design! Giga-tronics exclusively utilizes the Star Switch. It is similar to a multiplexer or tree switch, except it does not have a common mode. Instead of a common being switced to any position, any position can be switched to any other position - enable the ultimate flexibility.

BUILT-IN RESOURCE MANAGER

The Resource Manager, also known as the Slot 0 Controller, is a common resource system module providing configuration management services, commander/servant mapping, self test and diagnostics.

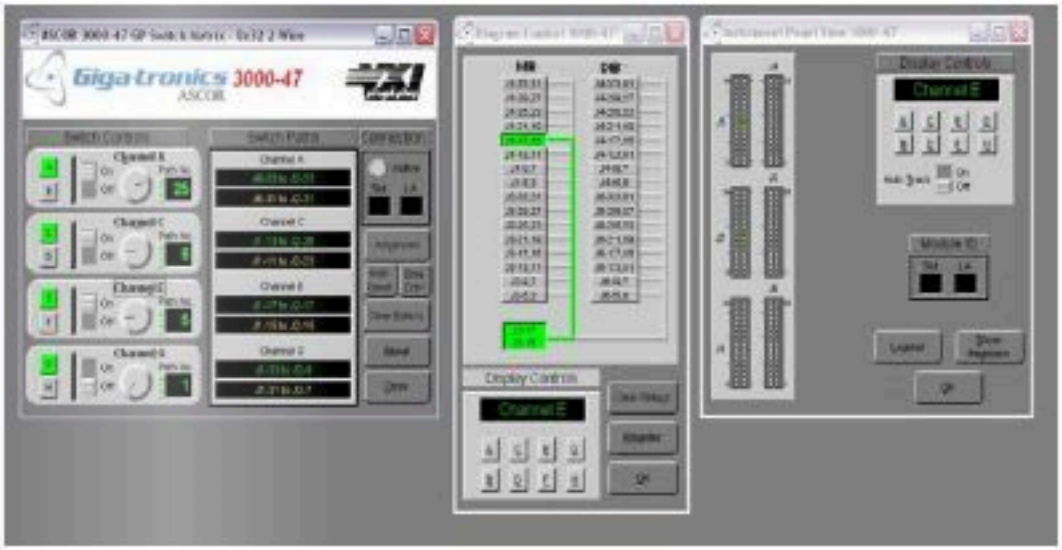


GT-8300A

3U Chassis with LAN and IEEE-488 control

GIGA-TRONICS POINT-TO-POINT SOFTWARE

- Just point and click and the software closes the appropriate relays
- Relay closure counter for preventative maintenance
- Path storage and recall to simplify test development
- Manual control with position indicator lights for troubleshooting



EASY MANAGEABILITY

For further manageability and reliability, the Model GT-8300A supports local and remote monitoring of its backplane and power diagnostics, as well as supporting soft start-ups and shutdowns.

QUIET POWER

The Model GT-8300A also incorporates the industry's most reliable, high-performance switching power supply. This self-cooling power supplies feature autoranging, and built-in temperature and overload protections.

GT-8300A

3U Chassis with LAN and IEEE-488 control

SPECIFICATIONS

Power Supply Outputs:	**Backplane:**
• 250 watt - standard	• 12 layers
+5 VDC at 30 Amps	• Timing/impedance-matched 50 ohm signal lines
+12 VDC at 16.7 Amps	• Auto configuring
• Autoranging	
90-132, 180-264 VAC at 47 - 63 Hz	**Acoustics:** 50 dBA @ full air flow
Dimensions: 5.25" H, 19" W, 17.5" L	**Temperature Range:**
Capacity: 4 "C-size" Slots	• Operating: 0° C to 60° C
Weight: 14 lbs	• Storage: -40° C to 70° C
MIL-T-28800 Type III Class 5, Style F	

Optional Features

- 10 MHz TCXO clock accurate to >10^{-8} aging/day, dual channel output.

LEVERAGE YOUR EXISTING INVESTMENT

Transitioning to next generation? Utilize your existing Giga-tronics 3000 series or 4000 series switches in our next generation GT-8300A and GT-8400A switching system chassis – making the transition from VXI to GPIB or LAN painless and at minimal additional cost.

GT-8300A

3U Chassis with LAN and IEEE-488 control

Product Guide for GT-8300A: Switching Module Examples

The switch cards listed below represent a sample of the over 200 switch modules. If you do not see a card in the sample selection guide, let us know what you need - We may have a ready solved your problem! Even if we haven't, we may design or tailor an existing module to meet those needs.

General Purpose		**Power**	
3000-12	32 SPDT, 2 Amp	3000-02	96 General Purpose SPST, 5 Amp
3000-53	96 SPDT, 2 Amp	3000-42	48 SPDT, 5 Amp
3000-60	32 DPDT, 2 Amp High Frequency	3000-43	48 SPST, 10 Amp
		3000-51	20 SPDT, 20 Amp

Matrix		**Relay Driver**	
3000-05	36 x 2 Coaxial Matrix	3000-04	128 Channel Relay Driver, 500 mA
3000-06	Dual 18 x 2 Coaxial Matrix	3000-48	16 Channel High Power Driver with Timer
3000-44	128 x 2, 2-wire Coaxially Shielded Matrix		
3000-44-opt1	Dual 64 x 2, 2-wire Coaxially Shielded Matrix	**Microwave**	
3000-45	64 x 4, 2-wire Coaxially Shielded Matrix	3000-80	Six 6 x 1, 26.5 GHz, Single Slot
3000-45B	128 x 4, 2-wire Coaxially Shielded Matrix	3000-226	Two 6 x 1, 26.5 GHz
3000-47	32 x 8, 2-wire Shielded Matrix	3000-236T	Three 6 x 1, 18 GHz, Terminated
3000-47-opt1	Dual 16 x 8, 2-wire Shielded Matrix	3000-246	Four 6 x 1, 26.5 GHz
3000-52	32 x 8, 2-wire Matrix	3000-286	Eight 6 x 1, 26.5 GHz
3000-52-opt1	Dual 16 x 8, 2-wire Matrix	3000-23236T	Three 2 x 1, Three 6 x 1, 18 GHz, Terminated
3000-57	64 x 4, 2-wire Matrix	3000-24662	Four 6 x 1 and Six SPDT 26.5 GHz
		3000-26662T	Six 6 x 1, Six 2 x 1, 18 GHz, Terminated
Tree			
3000-03	Quad 30 x 1, Trees with Switched Guards, Coaxially Shielded		
3000-08	Quad 60 x 1, Trees with Switched Guards, Coaxially Shielded		

Giga-tronics is much more than a switch vendor. Being a manufacturer with 30 years of experience in microwave test equipment (synthesizers, amplifiers, power meters and analyzers) and microwave components (YIG oscillators, filters and sub-assemblies) as well, we are uniquely positioned to apply a total system perspective to ensure an optimally performing switching system, transparent to the tests being conducted. In addition, we can apply our expertise to offer sub-system integration services.

Ordering Information

Giga-tronics has a network of RF and Microwave instrumentation sales engineers and a staff of factory support personnel to help you find the best, most economical instrument for your specific applications. In addition to helping you select the best instrument for your needs, our staff can provide quotations, assist you in placing orders, and do everything necessary to ensure that your business transactions with Giga-tronics are handled efficiently.

Model Number	Description
GT-8300A	3U Chassis with LAN and IEEE-488 control

Giga-tronics Contact

At Giga-tronics, we understand the challenges you face. Our support services begin from the moment you call us. We help you achieve both top-line growth and bottom-line efficiencies by working to identify your precise needs and implement smart and result orientated solutions. We believe and commit ourselves in providing you with more than our superior test solutions.

Tel: 1-800-726-GIGA (4442) or (925) 328-4669

For technical support: support@gigatronics.com

For Sales: inquiries@gigatronics.com

Updates

All data is subject to change without notice. For the latest information on Giga-tronics products and applications, please visit out website:

http://www.gigatronics.com

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