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**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)



## Product Description

The 3000-52 provides a Dual 2-wire 8x16 Switching Matrix specifically designed to be compatible with Twisted Pair Cabling. This module provides both high Bandwidth and high Signal to Noise Ratio. The 3000-52 has been designed with several exceptional features that make it stand out from competitive products.

■ **6U Form Factor** – the larger 6U form factor will accommodate 3-4 times the number of relays as 3U PXI products eliminating the need to build switching structures across boards decreasing Bandwidth.

■ **Analog Ground Plane** – A separate ground plane beneath the switches eliminates stray emissions, and since the Digital portion of the board has a separate ground plane, test signals will not affect the control circuitry.

■ **Dual Row Connectors** – Selected to enable use of low cost Twisted Pair Ribbon cable. Connectors configured to allow simple matrix expansion with ribbon cable.

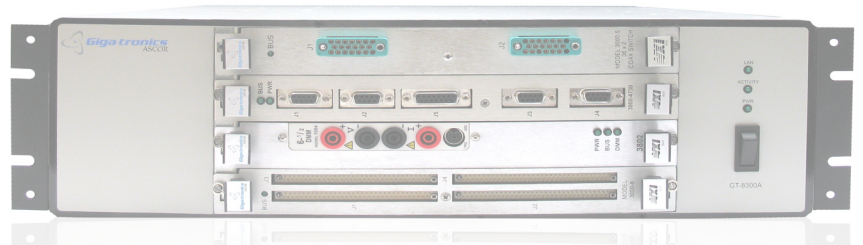
## Capabilities

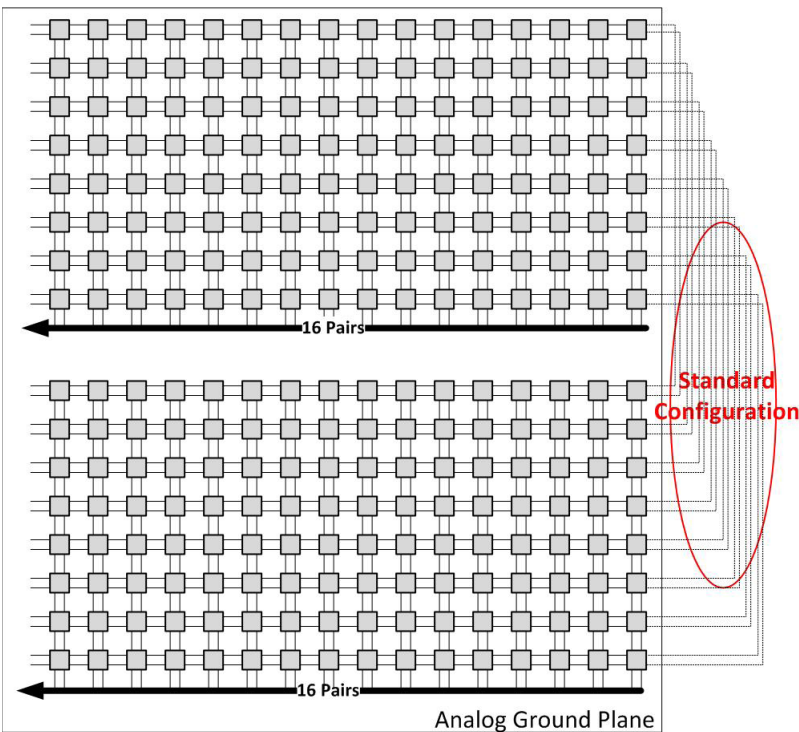
- Configurable as;  
(1)8x32 or (2)8x16
- Voltage Max = 220VAC, 250VAC
- Current Max = 2A
- Power = 60 Watts
- Path Resistance <0.41 Ω
- Bandwidth >70MHz  
(90 MHz version 3000-47)

## Recommended Uses

- **Instrument Switching** – Low Crosstalk and high Bandwidth makes this module ideal for Higher Frequency applications such as Test Instrumentation.
- **General Purpose switching** – the ease of expansion using this module makes it ideal for all switching applications requiring bandwidth up to 70MHz.

**Low Cost GT-8300A 3U chassis  
with LAN and IEEE-488 Control**





## Specifications

### Electrical

- Voltage Max = 220VDC, 250VAC
- Current Max = 2A (switched)
- Power Max = 60W
- Path Resistance < 0.41Ω
- Bandwidth >70MHz
- Crosstalk < -52dB (at 50MHz)
- Isolation > -71dB

### Environmental Temperature

- Operating 0° to 50°C
- Storage -40° to 75°C

### Humidity (non-condensing)

- Operating 10 to 90%
- Storage 0 to 95%

### Mechanical

- "C" size VXI

- All ASCOR cards have built-in circuitry to verify both the control signal from the programming register, as well as verifying the relay coil is intact.
- All Switching modules feature built-in memory to maintain the service record of the unit with time stamping.
- All Modules carry a full 3 year Warranty

## Ordering Information

Model #	Description	Manufacturer #
3000-52	(8x32) 2-wire Matrix, 70MHz, IDC connectors	90400810
3000-52 opt 1	2(8x16) 2-wire Matrix, IDC connectors	90400810-001
3000-52 opt 2	(8x32) 2-wire Matrix, Airborn connectors	90400810-002
3000-52 opt 3	2(8x16) 2-wire Matrix, Airborn connectors	90400810-003
3000-52 opt 4	2(8x16) 2-wire Matrix, IDC conn w/latches	90400810-101
	Set of Mating connectors for one Module	89800430
3000-52	VPC Funnel Adapter	89800430-001
3000-52	Set of Pigtail Cables for one Module 2'	89800430-002

www.gigatronics.com | inquiries@gigatronics.com  
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