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Giga-tronics

Technical Datasheet



PXI 7014 Switch Module
Programmable Switch Matrix

General Purpose / Matrix / Microwave / Tree

PXI Module - Series 7000

OVERVIEW

The Series 7000 product line offers the same high quality, low noise designs for both the PXI user and the CompactPCI user that have made Giga-tronics switch products the industry benchmark in VXI.

COMPATIBILITY

- HARDWARE
  Unless otherwise specified, the Series 7000 PXI switches incorporate coaxially shielded relays in all of the different matrices and multiplexer configurations to minimize cross talk, maximize isolation and extend the frequency response. Additionally, every Series 7000 card design includes a separate analog and digital ground plane to minimize noise and maintain signal integrity..

- SOFTWARE
  All Series 7000 modules are supported by a Plug-n-Play software driver which is provided with each unit.



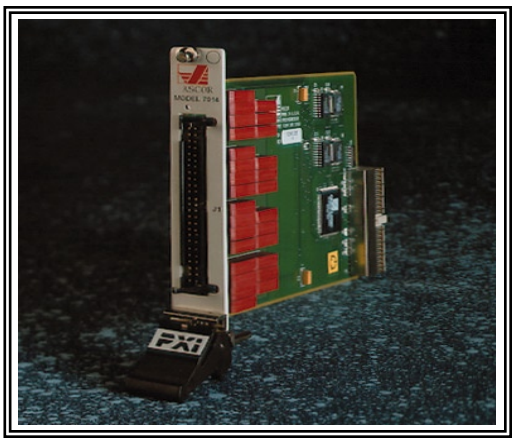
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PXI 7014 Switch Module

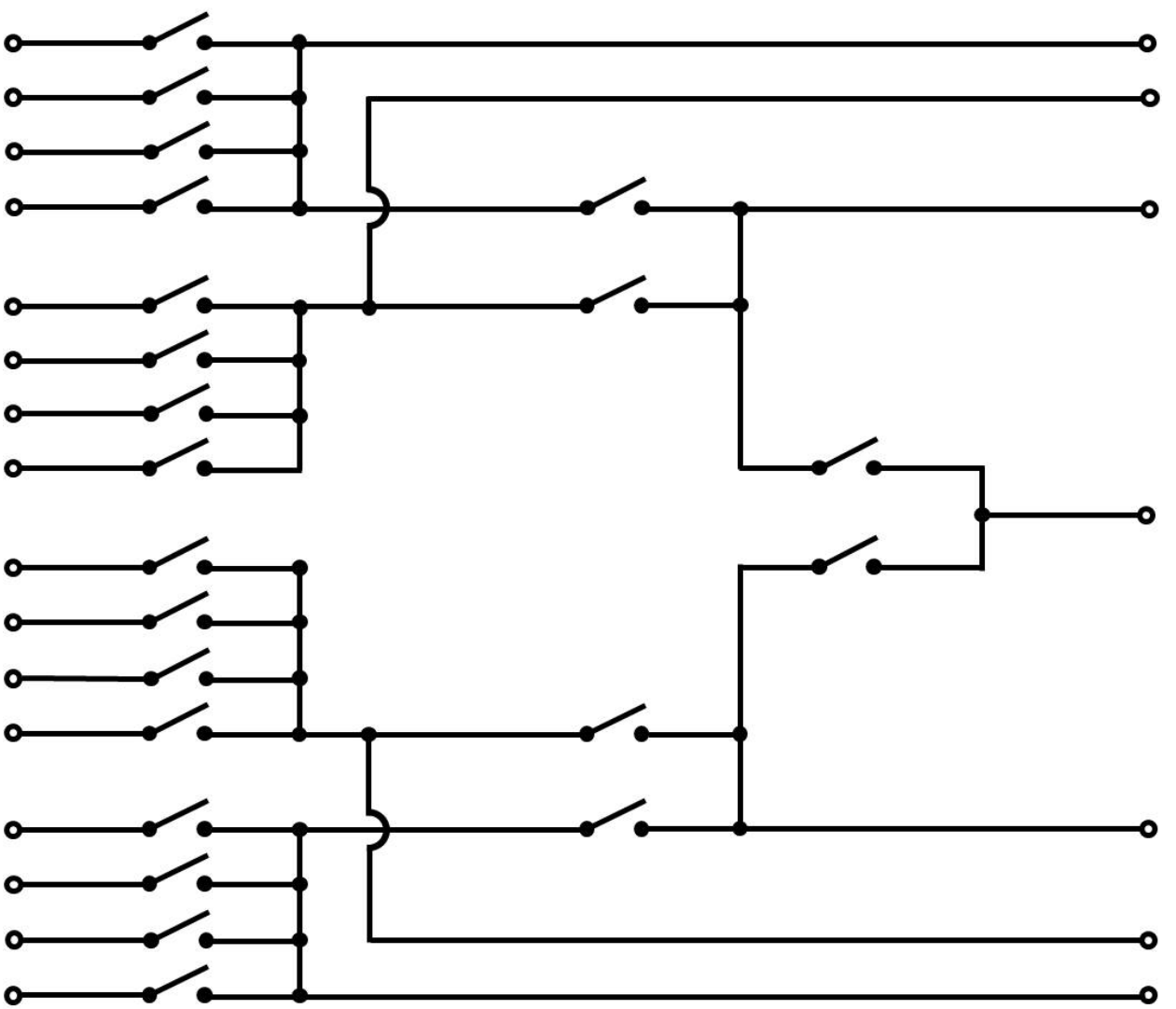
Programmable Switch Matrix, One 1x16, or Two 1x8, or Four 1x4

FEATURES

- Programmable Switch Matrix
- One 1x16, or Two 1x8, or Four 1x4
- Non-Blocking configurable Switch Matrix
- Shielded Relays for low cross-talk and high isolation
- 3 dB Bandwidth > 148 MHz
- Separate Analog and Digital Grounds for low noise



7014 Block Diagram



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PXI 7014 Switch Module

Programmable Switch Matrix, One 1x16, or Two 1x8, or Four 1x4

SPECIFICATIONS



Configuratoin:	Programmable One 1x16, or Two 1x8, or Four 1x4 Matrixes
Insertion loss:	< 0.407 dB @ 100 MHz
3 dB Bandwidth:	> 148 MHz
Initial Resistance:	< 0.28 Ohms
Power up Condition:	At power up all relays are reset (Open)
Selection LED:	A red LED blinks whenever the unit is selected
Front Panel Connectors:	AMP (TYCO) # 104129-9 Giga-tronics p/n 56100520
PXI Compatiblity:	Fully compatible with PXI Specification Revision 2.0
Power Requirements:	+5 volts @ 388 mA (Max)
Temperature:	0 °C to +50 °C, operating -40 °C to +85 °C, storage
Humidity:	< 95% R.H., non-condensing, 0 °C to +30 °C. < 75% R.H., non-condensing, +31 °C to +40 °C < 45% R.H., non-condensing, +41 °C to +50 °C

Relay Type	COTO 9002-05 Reed Relay (Giga-tronics p/n 50100060)
Configuration	SPST with 50 Ohm Coaxial Shield, 6 Pin SIP, 5V Coil
Inital Contact Resistance	< 0.187 Ω
Switching Power (Max)	10 W (DC/AC PEAK, RESISTIVE)
Switching Voltage (Max)	200 V (DC/AC PEAK, RESISTIVE)
Switching Currrent (Max)	1.0 A (DC/AC PEAK, RESISTIVE)
Relay Operate Time (Max)	1.0 msec (MAX)
Relay Release Time (Max)	0.5 msec (MAX) (Depends on suppression method)
Life Expectancy	> 500 Million
Dielectric Strength (Across Open Contacts)	> 250 V (DC/AC PEAK, RESISTIVE)
Dielectric Strength (Contacts to Coil)	> 500 V (DC/AC PEAK, RESISTIVE)

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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
7015	2x16 Single-Wire SwitchMatrix (Non-Blocking)

* Installation kit contain the mating parts for the front panel connectos

Giga-tronics Support Services

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. For technical support, contact:

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

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