GX6315 SERIES

HIGH CURRENT 45 RELAY PXI CARD

- 45 individual high current single pole double throw (SPDT) Form C relays
- 7 A contact rating per channel
- 9 additional relay drivers for external relays or other devices
- 6U PXI Instrument



DESCRIPTION

The GX6315 is a 45 channel, high current relay board that plugs directly into any 6U PXI slot. The GX6315 also provides nine transistor-driven channels for external relays. These outputs may be used to drive external loads, such as heavier duty relays, lamps or other devices.

FEATURES

The GX6315 consists of three groups: A, B, and C. Each group has 15 high current relays, three open collector relay drivers, and a 50-pin D type connector. The three open collector drivers in each group are connected via diodes to the same fly-back signal. The fly-back signal can be connected to the external relay supply to provide suppression for voltage spikes generated by the relays' coils.

PROGRAMMING AND SOFTWARE

The board is supplied with the GXSW library, a software package that includes a virtual instrument panel, and a Windows 32/64-bit DLL driver library and documentation. The virtual panel can be used to interactively program and control the instrument from a window that displays the instrument's current settings and status. In addition, interface files are provided to support access to programming tools and languages such as ATEasy, LabView, LabView/Real-Time, C/C++, Microsoft Visual Basic®, Delphi, and Pascal. An On-Line help file and PDF User's Guide provides documentation that includes instructions for installing, using and programming the board. A separate software package - <u>GtLinux</u> - provides support for

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APPLICATIONS

- Automatic Test Equipment (ATE)
- Power switching
- Alarm Outputs
- Data Acquisition Systems
- Process Control Systems



Linux 32/64 operating systems.

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SPECIFICATIONS

CONTACT SPECIFICATIONS		
Relay Format	45 SPDT Form C	
Relay Contact Resistange	0.1 ohm Initial	
Contact Life Rating at Low Level	10 x 10 ⁶ (typ)	
At 28 VDC @ 0.5 A	-5 x 10 ⁵ (typ)	
Switchable Volta ge, Maximum	30 VDC / 300 VAC	
Switchable Current	7 ADC / 7.5 AAC	
Contact Carry Current	7 A	
Operate Time	10 ms (max)	
Release Time	10 ms (max)	
DRIVER OUTPUTS		
Driver Channels	9 Open Collector outputs	
Current	500 mA sink per drive	
POWER REQUIREMENTS		
Operating Voltage	+5 VDC	
Power Consumption +3.3 V +5 V	100 mA 70 mA per channel (typ); 3 A (max)	
ENVIRONMENTAL		
Temperature (GX6315): Operating Storage	0 °C to +55 °C -20 °C to +85 °C	
Temperature (GX6315-M): Operating Storage	0 °C to 70 °C -20 °C to +85 °C	
Vibration	9 g at 10 - 55 Hz	
Shock ½ Sine	100 G for 6 mS	

PHYSICAL	
Size	6U PXI
Weight	16 oz
Connections	50-pin D Sub-type connectors. Includes three mating connectors.

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX6315	45 Channel High-Current Relay Card with 9 Additional Relay Drivers
GX6315-M	45 Channel High-Current Relay Card (Ruggedized and Conformally Coated)
ACCESSORY	
GX96301	Replacement Relay for GX6315
GT96108	Connector, D-type 50 pin male with solder pins (for GX6315)
GT97106	1' harness, 50 pin male connector on one end, loose wires (numbered) other end
GT97107	3` harness, 50 pin male connector on one end, loose wires (numbered) other end
GT97108	1' harness, 50 pin male connectors on both ends
GT97109	3' harness, 50 pin male connectors on both ends

