

# GX6115



## HIGH CURRENT RELAY PXI CARD

- 15 individual high current single pole double throw (SPDT) Form C relays
- 7 A contact rating per channel
- 3 additional relay drivers for external relays or other devices
- 50 pin, D-sub I/O connector
- 3U PXI Instrument
- PXI hybrid slot compatible



## DESCRIPTION

The GX6115 is a 15 channel, high current relay board that plugs directly into any 3U PXI slot. The GX6115 also provides three transistor-driven channels for external relays. These outputs may be used to drive external loads, such as heavy duty relays, lamps or other devices.

## FEATURES

The GX6115 offers 15 high current relays and three open collector relay drivers. The three open collector drivers are connected via diode 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's coil.

## 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 - [GtLinux](#) - provides support for Linux 32/64 operating systems.

## APPLICATIONS

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

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## SPECIFICATIONS

CONTACT SPECIFICATION	
Relay Format	15 SPDT Form C
Contact Resistance	0.1 ohm Initial
Contact Life Rating at Low Level at 28 VDC @ 0.5 A	10x10 <sup>6</sup> (typ) 5x10 <sup>5</sup> (typ)
Switchable Voltage, (Maximum)	30 VDC / 240 VAC
Switchable Current	7 A
Contact Carry Current	7 A
Operate Time	10 ms @ nominal voltage
Release Time	10 ms @ nominal voltage
DRIVE OUTPUTS	
Driver Channels	3 Open Collector outputs
Current	500 mA sink per driver
POWER REQUIREMENTS	
Power Consumption +3.3 V +5 V	100 mA (max) 70 mA per channel (typ); 1.75 A (max)
Operating Voltage	+5 VDC
ENVIRONMENTAL	
Operating Temperature	0 °C to +55 °C
Storage Temperature	-20 °C to +85 °C
Vibration	9 G at 10 - 55 Hz
Shock 1 / 2 Sine	100 G for 6 mS
PHYSICAL	
Size	3U PXI
Weight	250 g
Connections	50-pin D Sub-type connectors. Includes mating connector.

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

<b>GX6115</b>	15 Channel high-current relay card with 3 additional relay drivers
ACCESSORY	
<b>GT97106</b>	1' Harness, 50-Pin Male Connector on One End, Loose Wired (Numbered) Other End
<b>GT97107</b>	3' Harness, 50-Pin Male Connector on One End, Loose Wired (Numbered) Other End
<b>GT97108</b>	1' Harness, 50-Pin Male Connector on Both Ends
<b>GT97109</b>	3 Feet Harness, 50-Pin Male Connector on Both Ends
<b>GT96108</b>	Connector, D-Type 50-Pin Male with Crimp Pins
<b>GX98301</b>	3U "Wireless" Scout Adapter for GX6115 (96-Pin, 10A Scout Connector)

