

# GX6338



## HIGH DENSITY SWITCHING PXI CARD

- 114 channels of single-pole, single-throw (SPST) Form A relays
- 0.5 A contact rating per channel
- 78 pin D-sub connectors



## DESCRIPTION

The GX6338 is a low cost 6U switching card with 114 individual low level SPST Form A relays capable of switching 0.5 A at 200 VDC. The GX6338 is ideal for applications requiring high density switching.

## FEATURES

The GX6338 consists of three groups: A, B, and C. Each group has 38 individual relays and a 78-pin D type connector. Each of the relays can be latched or unlatched under program control.

## 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)
- Data Acquisition Systems
- Process Control Systems
- Factory Automation
- High density switching systems



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## SPECIFICATIONS

CONTACT SPECIFICATIONS	
Relay Format	114 SPST (1 Form A)
Relay Contact Resistance	0.2 (max)
Contact Life Rating at Low Level at 28 VDC @ 0.5 A	10 x 10 <sup>6</sup> (typ) 5 x 10 <sup>6</sup> (typ)
Switchable Voltage, Maximum	200 VDC
Switchable Current	0.5 A
Contact Carry Current	1.2 A
Operate Time	500 μs (max)
Release Time	250 μs (max)
POWER REQUIREMENTS	
Power Consumption +3.3 V +5 V	100 mA (max) 600 mA (typ); 1.1 A (max)
ENVIRONMENTAL	
Operating Temperature	0 °C To +50 °C
Storage Temperature	-20 °C To +70 °C
Vibration	9 G At 10 - 55 Hz
Shock ½ Sine	10 G For 11 Ms
PHYSICAL	
Size	6U PXI
Weight	500 G
Connections	78-Pin D Sub-Type Connectors. Includes Three Mating Connectors.

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

GX6338	114 Channel Form-A Relay card
ACCESSORY	
GT96002	Connector, D-Type 78-Pin Male with Crimp Pins
GT96078	78-Pin Connector to Screw Terminal Interface
GT96107	3 Feet Harness, 78-Pin Male Connector on Both Ends
GT97102	3 ft Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
GT97103	1 ft Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
GT97104	1 foot Harness, 78-Pin Male Connector on Both Ends
GX96302	Replacement Relay for GX6616 & GX6338
GX98602	6U "Wireless" Scout Adapter for GX6315/GX6325/GX6338 (2 x 96-Pin, 10A Scout Connectors)
GX96106	6 ft. Harness, 78 Pin Male Connector on Both Ends
GX96105	6 ft harness, 78 pin male connector on one end, loose wires (numbered) on other end
GT96110	5 ft Cable, 78-Pin Male Connector on Both Ends
GT97112	15' Cable, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
GT97113	15 ft Cable, 78-Pin Female Connector on One End, Loose Wired (Numbered) Other End