

GX6138



HIGH DENSITY SWITCHING PXI CARD

- 38 channels of single-pole, single-throw (SPST) form A relays
- 0.5 A contact rating per channel
- Available with 114 channels in a 6U form factor
- Compatible with PXI Express hybrid peripheral slots



DESCRIPTION

The GX6138 is low cost 3U switching card with 38 individual low level SPST Form A relays capable of switching 0.5 A at 200 VDC. The GX6138 is ideal for applications requiring high density switching.

FEATURES

The GX6138 consists of 38 individual relays and a 78-pin D type connector which makes it is easy to interface to the UUT or system receiver. 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

- Data Acquisition Systems
- Process Control Systems
- Factory Automation
- High Density Switching Systems



GX6138



SPECIFICATIONS

CONTACT SPECIFICATION	
Relay Format	38 SPST (1 Form A)
Resistance	0.3 (max)
Relay Contact Resistance	0.3 (max)
Contact Life Rating at Low Level at 28 VDC @ 0.5 A	10x10 ⁶ (typ) 5x10 ⁵ (typ)
Switchable Voltage, Maximum	200 VDC
Switchable Current	0.5 A
Contact Carry Current	1.2 A
Operate Time	500 μ s (max)
Release Time	250 μ s (max)
Power Consumption +3.3 V +5 V	100 mA (max) 200 mA (typ); 0.4 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	3U PXI
Weight	200 g
Connections	78-pin D Sub-type connector. Includes mating connector.

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX6138	38 Channel Form-A Relay card
ACCESSORY	
GT96002	Connector, D-Type 78-Pin Male with Crimp Pins
GT96078	78-Pin Connector to Screw Terminal Interface
GX96106	6 ft. Harness, 78 Pin Male Connector on Both Ends
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
GX98302	3U "Wireless" Scout Adapter for GX6138/GX6125/GX6377/GX6384/GX1648 (200-Pin Connector)
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