

# GX6125



## GENERAL PURPOSE SWITCHING PXI CARD

- 25 channels of single-pole, double-throw (SPDT) form C relays
- 2 A contact rating per channel
- Available with 75 2 A channels in a 6U form factor
- Compatible with PXI Express hybrid peripheral slots



## DESCRIPTION

The GX6125 is 3U high density switching card with 25 SPDT Form C relays with a switching power rating of 60 W. The GX6125 is suitable for all test applications requiring general purpose, low level switching.

## FEATURES

The GX6125 has 25 SPDT relays and a 78-pin D type connector which makes it easy to connect to the UUT or test system interface. 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
- Process Control Systems
- High-density switching systems
- Factory Automation

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## SPECIFICATIONS

CONTACT SPECIFICATION	
Relay Format	25 SPDT Form C
Relay Contact Resistance	50 m 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	220 VDC / 250 VAC
Switchable Current	2 A
Contact Carry Current	3 A
Switching Power Rating	60 W
Operate Time	3 ms (max)
Release Time	2 ms (max)
POWER REQUIREMENTS	
Power Consumption +3.3 V	100 mA (max)
+5 V	65 mA per relay (typ); 1.3 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 1 / 2 Sine	10 G for 11 mS
PHYSICAL	
Size	3U PXI
Weight	220 g
Connections	78-pin D Sub-type connector. Includes mating connector.

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

GX6125	25 Channel Form-C (SPDT) 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