

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 2A 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

GX6125

SPECIFICATIONS

CONTACT SPECIFICATION	
Relay Format	25 SPDT Form C
Relay Contact Resistance	50 m Ω Initial
Contact Life Rating at Low Level at 28 VDC @ 0.5 A	10x10 ⁶ (typ) 5x10 ⁵ (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' harness, 78 pin male connector on Both ends
GT96107	3' harness, 78 pin male connector on Both ends
GT97102	3' harness, 78 pin male connector on one end, loose wires (numbered) other end
GT97103	1' harness, 78 pin male connector on one end, loose wires (numbered) other end
GT97104	1' harness, 78 pin male connectors on both ends