

GX6377

MULTI FUNCTION RELAY PXI CARD

- Flexible configuration in a 3U form-factor
- Five 10 A, single pole Form A relays
- Four 2 A, single pole Form A relays
- Four 2 A, single pole Form C relays
- Dual 16x2, configurable relay matrix



DESCRIPTION

The GX6377 3U PXI multi function switch card provides users with the ability to switch both high current and general-purpose signals using only one 3U PXI switch module. The card features multiple channels of high current switching capability for 10 A and 2 A applications as well as two, 16 x 2 switch matrix groups, which can also be configured as a 32 x 2 or 16 x 4 matrix.

FEATURES

The GX6377 offers a total of 3 high current, independent relays — five 10 A, Form A; four 2 A, Form A; and four 2 A, Form C. The dual 16 x 2 relay matrix is rated for 500 mA and is hardware configurable as a 16 x 4 matrix or software configurable as a 32 x 2 matrix.

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)
- Automotive
- Power switching
- Industrial control
- Data Acquisition Systems
- Process Control Systems

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SPECIFICATIONS

RELAY / MATRIX SPECIFICATIONS	
Relay Configuration	5 SPST Form A
Relay Contact Resistance	0.1 ohm Initial
Contact Life Rating at Low Level at 28 V _{DC} @ 10A	10 X 10 ⁶ (typ) 5 X 10 ⁵ (typ)
Switchable Voltage, Maximum	30 V _{DC} / 240 V _{AC}
Switchable Current	10 A
Contact Carry Current	10 A
Switching Power Rating	210 W or 277 VA
Operate Time	10 ms @ nominal voltage
Release Time	10 ms @ nominal voltage
RELAY / MATRIX SPECIFICATIONS	
Relay Configuration	4 SPDT Form A, 4 SPST Form C
Relay Contact Resistance	50 m ohm Initial
Contact Life Rating at Low Level at 30 V _{DC} @ 2A	10 X 10 ⁶ (typ) 5 X 10 ⁵ (typ)
Switchable Voltage, Maximum	220 V _{DC} / 250 V _{AC} @ 300 mA
Switchable Current	2 A
Contact Carry Current	3 A
Switching Power Rating	60 W or 125 VA
Operate Time	3 ms (max)
Release Time	2 ms (max)

RELAY / MATRIX SPECIFICATIONS	
Matrix Configuration	16 X 2 (X2) / 32 X 2 / 16 X 4
Relay Contact Resistance	<0.2 ohm
Contact Life Rating at Low Level at 28 V _{DC} @ 500 mA	10 X 10 ⁶ (typ) 5 X 10 ⁶ (typ)
Switchable Voltage, Maximum	200 V _{DC}
Switchable Current	500 mA
Contact Carry Current	1.2 A
Switching Power Rating	10 W
Operate Time	500 μs (max)
Release Time	250 μs (max)
ENVIRONMENTAL	
Operating Temperature	0 °C to +55 °C
Storage Temperature	-20 °C to +85 °C
Vibration	5 G @ 500 Hz
Shock 1 / 2 Sine	5 G for 6 mS
PHYSICAL	
Size	3U PXI
Weight	8.8 oz
Connections	78-Pin D Sub-Type Connector. Includes Mating Connector.

Note: Specifications are subject to change without notice

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ORDERING INFORMATION

GX6377	Multifunction Switch Card. 5 Channels 10A, 8 Channels 2A, Two 2:16 Matrix
ACCESSORY	
GT96002	Connector, D-type 78-Pin Male with Crimp Pins
GT96078	78-Pin Connector to Screw Terminal Interface
GT97103	1' harness, 78 pin male connector on one end, loose wires (numbered) other end
GT97102	3' harness, 78 pin male connector on one end, loose wires (numbered) other end
GT97104	1' harness, 78 pin male connectors on both ends
GX96106	6' harness, 78 pin male connector on Both ends
GT96107	3' harness, 78 pin male connector on Both ends

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SWITCHING