

# 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
- PXI hybrid slot compatible



## 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 <sub>DC</sub> @ 10A	10 X 10 <sup>6</sup> (typ) 5 X 10 <sup>5</sup> (typ)
Switchable Voltage, Maximum	30 V <sub>DC</sub> / 240 V <sub>AC</sub>
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 <sub>DC</sub> @ 2A	10 X 10 <sup>6</sup> (typ) 5 X 10 <sup>5</sup> (typ)
Switchable Voltage, Maximum	220 V <sub>DC</sub> / 250 V <sub>AC</sub> @ 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 <sub>DC</sub> @ 500 mA	10 X 10 <sup>6</sup> (typ) 5 X 10 <sup>6</sup> (typ)
Switchable Voltage, Maximum	200 V <sub>DC</sub>
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

<b>GX6377</b>	Multifunction Switch Card. 5 Channels 10A, 8 Channels 2A, Two 2:16 Matrix
<b>ACCESSORY</b>	
<b>GT96002</b>	Connector, D-Type 78-Pin Male with Crimp Pins
<b>GT96078</b>	78-Pin Connector to Screw Terminal Interface
<b>GT97103</b>	1 ft Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
<b>GT97102</b>	3 ft Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
<b>GT97104</b>	1 foot Harness, 78-Pin Male Connector on Both Ends
<b>GX96106</b>	6 ft. Harness, 78 Pin Male Connector on Both Ends
<b>GT96107</b>	3 Feet Harness, 78-Pin Male Connector on Both Ends
<b>GX98302</b>	3U "Wireless" Scout Adapter for GX6138/GX6125/GX6377/GX6384/GX1648 (200-Pin Connector)
<b>GX96105</b>	6 ft harness, 78 pin male connector on one end, loose wires (numbered) on other end
<b>GT96110</b>	5 ft Cable, 78-Pin Male Connector on Both Ends
<b>GT97112</b>	15' Cable, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
<b>GT97113</b>	15 ft Cable, 78-Pin Female Connector on One End, Loose Wired (Numbered) Other End

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SWITCHING

