

# GX6325

## GENERAL PURPOSE SWITCHING CARD

- 75 channels of single pole double throw (SPDT) Form C relays
- 2 A contact rating per channel
- 6U PXI board



## DESCRIPTION

The GX6325 is 6U switching card with 75 SPDT Form C relays capable of switching 2 A at 220 V<sub>DC</sub>. With the highest density available in PXI, the GX6325 is suitable for all test applications requiring general purpose, low level switching.

## FEATURES

The GX6325 consists of three groups: A, B, and C. Each group has 25 high current relays and a 78-pin D type connector. Each of the relays can be latched or unlatched under program control.

## SOFTWARE

The GX6325 is supplied with a virtual instrument panel, which includes the 32-bit DLL driver libraries and documentation. The virtual panel can be used to interactively adjust and control the instrument from a window that displays the current instrument settings and measurements.

In addition, various interface files provide access to the library for programming tools and languages such as ATEasy, LabVIEW, Microsoft® and Borland® C/C++, Microsoft Visual Basic®, Borland Delphi, and more.

## APPLICATIONS

- Automatic Test Equipment (ATE)
- Data Acquisition Systems
- Process Control Systems
- Factory Automation
- High density switching systems

# GX6325

## SPECIFICATIONS

CONTACT SPECIFICATIONS	
RELAY FORMAT	75 SPDT Form C
RELAY CONTACT RESISTANCE	50 mΩ Initial
CONTACT LIFE RATING AT LOW LEVEL	10 x10 <sup>6</sup> Typ.
AT 28 V <sub>DC</sub> @ 0.5A	5 x10 <sup>5</sup> Typ.
SWITCHABLE VOLTAGE, MAXIMUM	220 V <sub>DC</sub> /250 V <sub>AC</sub>
SWITCHABLE CURRENT	2 A
CONTACT CARRY CURRENT	3 A
OPERATE TIME	3 ms (Max.)
RELEASE TIME	2 ms (Max.)
POWER REQUIREMENTS	
POWER CONSUMPTION +3.3 V +5 V	100 mA (Max.) 65 mA per relay (Typ.); 5 A (Max.)
ENVIRONMENTAL	
OPERATING TEMPERATURE	-0° to +55° C
STORAGE TEMPERATURE	-20° C to +85° C
VIBRATION	10 g at 10-55 Hz
SHOCK ½ SINE	10 G for 11 mS
PHYSICAL	
SIZE	6U PXI
WEIGHT	500 g
CONNECTIONS	78-pin D Sub-type connectors. Includes three mating connectors.

Note: Specifications are subject to change without notice.

## ORDERING INFORMATION

GX6325	75 channel relay board
GT96002	Connector, D-type 78-pin male with solder pins
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 connector on both ends
GT96107	3' harness, 78-pin male connector on both ends
GT96078	78-pin connector to screw terminal interface

## PIN ASSIGNMENT

GROUP A RELAYS CONNECTOR*			
CH1 NC	1	40	CH13 NC
CH1 CO	2	41	CH13 CO
CH1 NO	3	42	CH13 NO
CH2 NC	4	43	CH14 NC
CH2 CO	5	44	CH14 CO
CH2 NO	6	45	CH14 NO
CH3 NC	7	46	CH15 NC
CH3 CO	8	47	CH15 CO
CH3 NO	9	48	CH15 NO
CH4 NC	10	49	CH16 NC
CH4 CO	11	50	CH16 CO
CH4 NO	12	51	CH16 NO
CH5 NC	13	52	CH17 NC
CH5 CO	14	53	CH17 CO
CH5 NO	15	54	CH17 NO
CH6 NC	16	55	CH18 NC
CH6 CO	17	56	CH18 CO
CH6 NO	18	57	CH18 NO
CH25 NC	19	58	CH25 NO
CHASSIS	20	59	GND
CH7 NC	21	60	CH19 NC
CH7 CO	22	61	CH19 CO
CH7 NO	23	62	CH19 NO
CH8 NC	24	63	CH20 NC
CH8 CO	25	64	CH20 CO
CH8 NO	26	65	CH20 NO
CH9 NC	27	66	CH21 NC
CH9 CO	28	67	CH21 CO
CH9 NO	29	68	CH21 NO
CH10 NC	30	69	CH22 NC
CH10 CO	31	70	CH22 CO
CH10 NO	32	71	CH22 NO
CH11 NC	33	72	CH23 NC
CH11 CO	34	73	CH23 CO
CH11 NO	35	74	CH23 NO
CH12 NC	36	75	CH24 NC
CH12 CO	37	76	CH24 CO
CH12 NO	38	77	CH24 NO
CH25 CO	39	78	Reserved

\*Typical connector configuration shown.  
For Group B add 25 to each channel number  
For Group C add 50 to each channel number.