

GX6384

CONFIGURABLE, HIGH DENSITY 3U PXI RELAY MULTIPLEXER CARD

- Supports up to 384 switch connections
- Available in three configurations: dual 32x2, dual 32x4, dual 32x6
- Can be configured in software as a 64x2, 64x4, 64x6 switch matrix
- User friendly 78 pin sub-D type interface connector



DESCRIPTION

The GX6384 3U PXI multiplexer switch card provides users with the ability to switch and interface tester resources to multiple UUT connections. The card is available in three different configurations, supporting 32x2, 32x4 and 32x6 switch configurations.

FEATURES

All three versions of the GX6384 can be software configured as a single or dual relay matrix. The -1 version can be configured as a dual 32x2 or single 64x2 matrix. The -2 version can be configured as a dual 32x4 or single 64x4 matrix, and the -3 version can be configured as a dual 32x6 or single 64x6 matrix.

SOFTWARE

The GX6384 is supplied with a virtual instrument panel, which includes 32-bit DLL driver libraries and documentation. The virtual panel can be used to interactively control the card from a window that displays the current settings and status.

In addition, various interface files provide access to the library for support of 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)
- Automotive
- Power switching
- Industrial control
- Data Acquisition Systems
- Process Control Systems

GX6384

SPECIFICATIONS

RELAY/MATRIX SPECIFICATIONS	
MATRIX CONFIGURATION	32 X 2 (X2) / 32 X 4 (x2) / 64X 4 (x2)
RELAY CONTACT RESISTANCE	< .1 ohms
CONTACT LIFE RATING AT LOW LEVEL	10 ⁹ cycles
SWITCHABLE VOLTAGE, MAXIMUM	170 VDC or AC
SWITCHABLE CURRENT	500 mA
CONTACT CARRY CURRENT	500 mA
OPERATE TIME	.1 mS
RELEASE TIME	.02 mS
ENVIRONMENTAL	
OPERATING	-0° C to +55° C
STORAGE	-0° C to +55° C
VIBRATION	-20° C to +85° C
SHOCK ½ SINE	100G for 6 mS
PHYSICAL	
SIZE	3U PXI
WEIGHT	8.8 oz
CONNECTIONS	78-pin D Sub-type connectors. Includes mating connector.

Note: Specifications are subject to change without notice.

ORDERING INFORMATION

GX6384-1	Dual 32x2 matrix switch card
GX6384-2	Dual 32x4 matrix switch car
GX6384-3	Dual 32x6 matrix switch card
GT96002	Connector, D-type 78-pin male with solder pins for GX6384
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

PIN ASSIGNMENT

Pin#	Signal	Pin#	Signal	Pin#	Signal	Pin#	Signal
1	RA1	21	RA17	40	RB1	60	RB17
2	RA2	22	RA18	41	RB2	61	RB18
3	RA3	23	RA19	42	RB3	62	RB19
4	RA4	24	RA20	43	RB4	63	RB20
5	RA5	25	RA21	44	RB5	64	RB21
6	RA6	26	RA22	45	RB6	65	RB22
7	RA7	27	RA23	46	RB7	66	RB23
8	RA8	28	RA24	47	RB8	67	RB24
9	RA9	29	RA25	48	RB9	68	RB25
10	RA10	30	RA26	49	RB10	69	RB26
11	RA11	31	RA27	50	RB11	70	RB27
12	RA12	32	RA28	51	RB12	71	RB28
13	RA13	33	RA29	52	RB13	72	RB29
14	RA14	34	RA30	53	RB14	73	RB30
15	RA15	35	RA31	54	RB15	74	RB31
16	RA16	36	RA32	55	RB16	75	RB32
17	CA1	37	CA2	56	CB1	76	CB2
18	CA3 ¹	38	CA4 ¹	57	CB3 ¹	77	CB4 ¹
19	CA5 ²	39	CA6 ²	58	CB5 ²	78	CB6 ²
20	Chassis			59	GND		

[1] -2 and -3 version only

[2] -3 version only