GX6338

HIGH DENSITY SWITCHING CARD

- 114 channels of single pole single throw (SPST) Form A relays
- 0.5 A contact rating per channel
- 6U PXI board

DESCRIPTION

The GX6338 is a low cost 6U switching card with 114 individual low level SPST Form A relays capable of switching 0.5 A at 200 V_{DC}. The GX6338 is ideal for applications requiring high density switching.

FEATURES

The GX6338 consists of three groups: A, B, and C. Each group has 38 individual relays and a 78-pin D type connector. Each of the relays can be latched or unlatched under program control.

SOFTWARE

The GX6338 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

GX6338

SPECIFICATIONS

CONTACT SPECIFICATIONS	
RELAY FORMAT	114 SPST (1 Form A)
RELAY CONTACT RESISTANCE	0.2 Ω (Max.)
CONTACT LIFE RATING AT LOW LEVEL	10 x10^6 Typ.
AT 28 V_{DC} @ 0.5A	5 x10^6 Typ.
SWITCHABLE VOLTAGE, MAXIMUM	200 V_{DC}
SWITCHABLE CURRENT	0.5 A
CONTACT CARRY CURRENT	1.2 A
OPERATE TIME	500 µS (Max.)
RELEASE TIME	250 µS (Max.)
POWER REQUIREMENTS	
POWER CONSUMPTION +3.3 V +5 V	 100 mA (Max.) 600 mA (Typ.); 1.1 A (Max.)
ENVIRONMENTAL	
OPERATING TEMPERATURE	-0° to +50° C
STORAGE TEMPERATURE	-20° C to +70° C
VIBRATION	9 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

GX6338	114 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*			
CH1A	1	40	CH20A
CH2A	2	41	CH21A
CH3A	3	42	CH22A
CH4A	4	43	CH23A
CH5A	5	44	CH24A
CH6A	6	45	CH25A
CH7A	7	46	CH26A
CH8A	8	47	CH27A
CH9A	9	48	CH28A
CH10A	10	49	CH29A
CH11A	11	50	CH30A
CH12A	12	51	CH31A
CH13A	13	52	CH32A
CH14A	14	53	CH33A
CH15A	15	54	CH34A
CH16A	16	55	CH35A
CH17A	17	56	CH36A
CH18A	18	57	CH37A
CH19A	19	58	CH38A
CHASSIS	20	59	GND
CH1B	21	60	CH20B
CH2B	22	61	CH21B
CH3B	23	62	CH22B
CH4B	24	63	CH23B
CH5B	25	64	CH24B
CH6B	26	65	CH25B
CH7B	27	66	CH26B
CH8B	28	67	CH27B
CH9B	29	68	CH28B
CH10B	30	69	CH29B
CH11B	31	70	CH30B
CH12B	32	71	CH31B
CH13B	33	72	CH32B
CH14B	34	73	CH33B
CH15B	35	74	CH34B
CH16B	36	75	CH35B
CH17B	37	76	CH36B
CH18B	38	77	CH37B
CH19B	39	78	CH38B

*Typical connector configuration shown.
For Group B add 38 to each channel number
For Group C add 76 to each channel number.