

GX6115

HIGH CURRENT RELAY CARD

- 15 individual high current single pole double throw (SPDT) Form C relays
- 7 A contact rating per channel
- 3 additional relay drivers for external relays or other devices
- 3U PXI board



DESCRIPTION

The GX6115 is a 15 channel, high current relay board that plugs directly into any 3U PXI slot. The GX6115 also provides three transistor-driven channels for external relays. These outputs may be used to drive external load, such as heavier duty relays or lamps or other devices.

FEATURES

The GX6115 offers 15 high current relays, three open collector relay drivers, and a 50-pin D type connector. The three open collector drivers are connected via diode to the same fly-back signal. The fly-back signal can be connected to the external relay supply to provide suppression for voltage spikes generated by the relays's coil.

SOFTWARE

The GX6115 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)
- Power switching
- Alarm Outputs
- Data Acquisition Systems
- Process Control Systems

GX6115

SPECIFICATIONS

CONTACT SPECIFICATIONS	
RELAY FORMAT	15 SPDT Form C
RELAY CONTACT RESISTANCE	0.1 Ω Initial
CONTACT LIFE RATING AT LOW LEVEL	10 x10 ⁶ Typ.
AT 28 V _{DC} @ 0.5A	5 x10 ⁵ Typ.
SWITCHABLE VOLTAGE, MAXIMUM	30 V _{DC} /240 V _{AC}
SWITCHABLE CURRENT	7 A
CONTACT CARRY CURRENT	7 A
OPERATE TIME	10 ms @ nominal voltage
RELEASE TIME	10 ms @ nominal voltage
DRIVER OUTPUTS	
DRIVER CHANNELS	3 Open Collector outputs
CURRENT	500 mA sink per driver
POWER REQUIREMENTS	
OPERATING VOLTAGE	+ 5 V _{DC}
POWER CONSUMPTION +3.3 V +5 V	100 mA 70 mA per channel (Typ.); 1.75 A (Max.)
ENVIRONMENTAL	
TEMPERATURE	
OPERATING	-0° C to +55° C
STORAGE	-20° C to +85° C
VIBRATION	9 g at 10-55 Hz
SHOCK ½ SINE	100 G for 6 mS
PHYSICAL	
SIZE	3U PXI
WEIGHT	8.8 oz
CONNECTIONS	50-pin D Sub-type connectors. Includes mating connector.

Note: Specifications are subject to change without notice.

ORDERING INFORMATION

GX6115	15 channel high current relay card
GT96108	Connector, D-type 50-pin male with solder pins for GX6115
GT97106	1' harness, 50-pin male connector on one end, loose wires (numbered) other end
GT97107	3' harness, 50-pin male connector on one end, loose wires (numbered) other end
GT97108	1' harness, 50-pin male connector on both ends
GT97109	3' harness, 50-pin male connector on both ends

PIN ASSIGNMENT

GROUP C RELAYS CONNECTOR			
NO 1	1	26	CO 9
NO 2	2	27	CO 10
NO 3	3	28	CO 11
NO 4	4	29	CO 12
NO 5	5	30	CO 13
NO 6	6	31	CO 14
NO 7	7	32	CO 15
NO 8	8	33	FBA
NO 9	9	34	NC 1
NO 10	10	35	NC 2
NO 11	11	36	NC 3
NO 12	12	37	NC 4
NO 13	13	38	NC 5
NO 14	14	39	NC 6
NO 15	15	40	NC 7
DR 1	16	41	NC 8
DR 2	17	42	NC 9
CO 1	18	43	NC 10
CO 2	19	44	NC 11
CO 3	20	45	NC 12
CO 4	21	46	NC 13
CO 5	22	47	NC 14
CO 6	23	48	NC 15
CO 7	24	49	DR 3
CO 8	25	50	GND