

GX1164 SERIES

GX1164 PROGRAMMABLE RESISTOR MODULE

- 4 or 8 programmable resistor channels
- 8 or 16 resistors per channel
- On-Board EEPROM for storing application specific calibration data
- 1 Ω to 64 K Ω resistance in 1 Ω resolution (other ranges and resolutions available)
- 3U PXI Instrument Module



DESCRIPTION

The GX1164 is a 3U PXI programmable resistor module with 4 channels of 16 resistors each or 8 channels of 8 resistors each. When used in the 4-channel configuration, each channel can simulate resistances from 1 Ω to 64K Ω with 1 Ω resolution

FEATURES

The GX1164 can be used in multiple configurations. The following configurations are supported:

- 4 Channels, 1 Ω to 64K Ω , 1 Ω resolution
- 2 Channels, 1 Ω to 128K Ω , 1 Ω resolution
- 1 Channel, 1 Ω to 256K Ω , 1 Ω resolution
- 2 Channels, 1 Ω to 64K Ω potentiometer with a wiper, 1 Ω resolution

The GX1164 includes an on-board EEPROM that contains calibration data. The EEPROM can also be used to "personalize" the GX1164 for custom resistance ranges and resolutions.

SOFTWARE

The GX1164 is supplied with a software package that includes a virtual panel driver, and on-line documentation.

The virtual panel can be used to interactively control the instrument from a window that displays the current instrument settings as well as control and change settings.

The driver provides a library of functions that are used to control and change the instrument settings from within your application. The instrument driver is provided for the Windows operating system (32 bit DLL). In addition to the driver library, various interface files provide access to the library from your favorite programming tools and languages. These interface files support ATEasy, LabView, LabWindows, Microsoft and Borland C/C++, Microsoft Visual Basic, Borland Delphi as well as other application development environments.

APPLICATIONS

- ATE systems
- Event timing measurements
- Sensor simulation and emulation
- Automated calibration and alignment

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SPECIFICATIONS

RESISTOR CHANNELS	
NUMBER OF CHANNELS	4
CHANNEL RESISTANCE	1Ω to 64Ω. Other values available. Contact factory.
RESOLUTION	1Ω
ACCURACY	±(1% + 1 Ω)
CURRENT	0.5A Max per channel
VOLTAGE	200V Max per channel
POWER	0.5W Max per channel
POWER SUPPLY	300mA Max 600mA Max
	3.3V 5v
PHYSICAL	
FORMAT/SIZE	3U PXI
APPROPRIATE WEIGHT	1 lb.
OPERATING TEMP.	0 to 55°C
HUMIDITY	20% - 95% non-condensing

ORDERING INFORMATION

GX1164	Programmable Resistor Card. 4 channels 1 Ohm to 64KOhm, 1 Ohm resolution
GX91801	25 Pin male mating connector for GX1838/GX1164
GX91802	25 Pin male mating connector for GX1838/GX1164 with a 3' unterminated harness
GX91803	3' harness for GX1838/GX1164, 25-pin male/female connectors on both ends