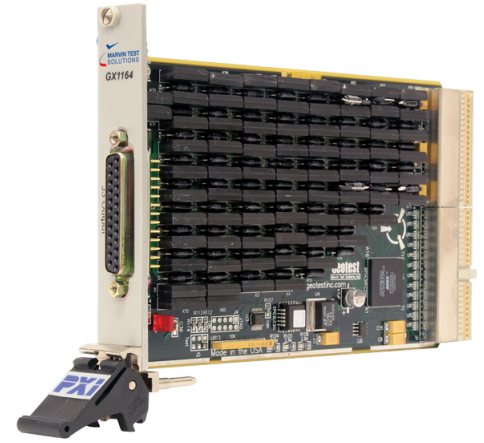


GX1164 SERIES

PROGRAMMABLE RESISTOR PXI BOARD

- 4 or 8 Programmable Resistor channels
- Multiple configurations available for range and resolution
- On-Board EEPROM for storing application specific calibration data
- Hybrid slot compatible



DESCRIPTION

The GX1164 is a 3U PXI programmable resistor module with 4 channels of 16 resistors each or 8 channels of 8 resistors each. The module is available in various resistance ranges and resolutions. When used in the 4-channel configuration, each channel can simulate resistances with the following ranges:

- 0.25 Ω to 16 k Ω
- 0.5 Ω to 32 k Ω
- 1 Ω to 64 k Ω
- 2 Ω to 128 k Ω
- 4 Ω to 256 k Ω
- 8 Ω to 512 k Ω

FEATURES

The GX1164 can be used in multiple configurations including an 8 channel, 4 channel, two channel, 1 channel or 2 channel potentiometer with wiper configuration.

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.

PROGRAMMING AND SOFTWARE

The board is supplied with the GXPRES software, a software package that includes a virtual instrument panel, and a Windows 32/64-bit DLL driver library and documentation. The virtual panel can be used to interactively program and control the instrument from a window that displays the instrument's current settings and status. In addition, interface files are provided to support access to programming tools and languages such as ATEasy, LabView, LabView/Real-Time, C/C++, Microsoft Visual Basic®, Delphi, and Pascal. An On-Line help file and PDF User's Guide provides documentation that includes instructions for installing, using and programming the board.

A separate software package - [GtLinux](#) - provides support for Linux 32/64 operating systems.

APPLICATIONS

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

GX1164 SERIES

SPECIFICATIONS

RESISTOR CHANNELS	
Number of Channels	4
Channel Resistance Ranges	0.25 Ω to 16 kΩ 0.5 Ω to 32 kΩ 1 Ω to 64 kΩ 2 Ω to 128 kΩ 4 Ω to 256 kΩ 8 Ω to 512 kΩ.
Resolution	0.25 Ω, 16 KΩ range 0.5 Ω, 32 KΩ range 1 Ω, 64 KΩ range 2 Ω, 128 KΩ range 4 Ω, 256 KΩ range 8 Ω, 512 KΩ range
Accuracy	±(1% of programmed value + resolution)
Current	0.5 A (max) per channel
Voltage	200 V (max) per channel
Power	0.5 W (max) per channel
Power Requirements	
3.3 V	300 mA (max)
5 V	600 mA (max)
PHYSICAL	
Size	3U PXI
Weight	1 lb
Operating Temperature	0 °C to +55 °C
Humidity (Non-Condensing)	20% to 95%

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX1164	Programmable Resistor Card. 4 Channels 1 Ohm to 64 KOhm, 1 Ohm Resolution
GX1164-0.25	Programmable Resistor Card. 4 channels 0.25 Ohm to 16 KOhm, 0.25 Ohm Resolution
GX1164-0.5	Programmable Resistor Card. 4 Channels 0.5 Ohms to 32 KOhms, 0.5 Ohm Resolution
GX1164-2	Programmable Resistor Card. 4 Channels 2 Ohm to 128 KOhm, 2 Ohm Resolution
GX1164-2M	Programmable Resistor Card. 4 Channels 2 Ohm to 128 KOhm, 2 Ohm Resolution (Ruggedized and Conformally Coated)
GX1164-4	Programmable Resistor Card. 4 Channels 4 Ohm to 256 KOhm, 4 Ohm Resolution
GX1164-8	Programmable Resistor Card. 4 Channels 8 Ohm to 512 KOhm, 8 Ohm Resolution
ACCESSORY	
GX91801	25 Pin Male Mating Connector for GX1838/GX1164/GX7404
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
CALIBRATION	
GX91805	GX1164 Calibration Service (Includes Pre/Post Data Analysis)
GX91805-4	GX1164 Calibration Service - 4 Years (Includes Pre/Post Data Analysis). Calibration Cycle is Every Two Years.
GX91805-6	GX1164 Calibration Service - 6 Years (Includes Pre/Post Data Analysis). Calibration Cycle is Every Two Years.
GX1164-CAL	GX1164 Calibration/Verification Service. 2 year calibration cycle. Includes pre-verification data (post calibration data provided if applicable)
GX1164-CAL-4	GX1164 Calibration/Verification Service - 4 Years. Calibration Cycle is Every Two Years. Includes pre-verification data (post calibration data provided if applicable)
GX1164-CAL-6	GX1164 Calibration/Verification Service - 6 Years. Calibration Cycle is Every Two Years. Includes pre-verification data (post calibration data provided if applicable)