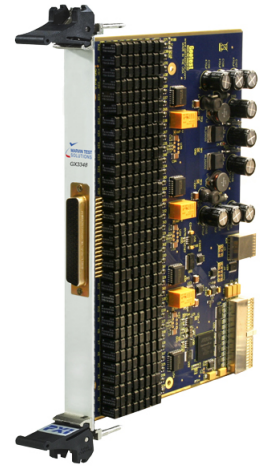


# GX3348 SERIES

## 6U PXI MULTI-CHANNEL ANALOG I/O PXI CARD

- Three programmable DC outputs, -20 to +32 VDC
- Available with a 4 x 48 or 4 x 64 relay matrix configuration
- DC measurement capability on each channel
- 500 mA maximum current output
- External source input with switchable amplifier



## DESCRIPTION

The GX3348 is a multi-channel analog I/O 6U PXI card which provides (3) programmable sources, a ground source connection, and a 4 x 48 or 4 x 64 matrix - allowing the user to route the 3 sources, or ground to any of the 48 or 64 I/O channels. In addition, each I/O channel can be connected to a 16-bit A to D converter, providing DC voltage measurement capability for each channel.

## FEATURES

The 4 inputs to the switch matrix can be connected to the following sources:

- Programmable -20 to +32 VDC source or external source (with amplifier or bypassed)
- Ground (0 V)

Each I/O channel also includes DC measurement capability; allowing each input channel to be monitored and facilitating module self-test. Combined maximum output current for all programmable sources is 500 mA. If using the external source inputs, 5 VDC or ground connection, maximum current is limited to 3 A. An onboard EEPROM contains the DAC's and ADC's calibration parameters.

## SOFTWARE

The board is supplied with the GXPDO driver, 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®, C#, 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.

## APPLICATIONS

- LRU/SRU avionics testing
- Automotive ECU testing
- Process control systems
- Precision data acquisition
- Automatic Test Equipment (ATE)

# GX3348 SERIES

## SPECIFICATIONS

USER CHANNEL I/O SPECIFICATIONS	
Number of Channels	48 or 64
Channel Multiplexer Configuration	4 x 48 or 4 x 64
Maximum Current per Channel	500 mA
Maximum Source Current	500 mA total for all three programmable sources 3 A for all other sources
Number of Voltage Rails	4
Voltage Rails	-20 to +32 VDC or Ext. Input (with amplifier or bypassed) -20 to +32 VDC or 5 VDC -20 to +32 VDC or Ext. Input Ground (0 V)
Number of DACs	3
DAC Resolution	16-bit
Output Accuracy	±1 LSB ±10 mV, 1 kΩ load
Slew Rate (DAC or amplifier)	6 V/μs (typ); 1 kΩ, 50 pF load
Amplifier Gain	6.6, nominal
Amplifier Bandwidth	DC to 10 KHz
Amplifier Output Swing	-20 to +32 V max.
DAC and Amplifier Output Protection	Short circuit (ground)
Measurement Channels	48 or 64 Measurement range: ±40 V Resolution: 16 bits Accuracy: 5 mV
Power ON State	All channels / rails open
PHYSICAL AND ENVIRONMENTAL	
Operating Temperature	0 °C to +55 °C
Storage Temperature	-20 °C to +70 °C
Connector	78 pin, D-sub, female
Mechanical	6U PXI, single slot
Weight	14 oz

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

GX3348	48 Channel Analog I/O Card
GX3364	64 Channel Analog I/O Card
GX3364-M	64 Channel Analog I/O Card (Ruggedized & Conformally Coated)
ACCESSORY	
GT97102	3' Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
GT97103	1' Harness, 78-Pin Male Connector on One End, Loose Wired (Numbered) Other End
GX3348-CAL	GX3348 Calibration/Verification Service. Includes pre-verification data (post calibration data provided if applicable)
GX3348-CAL-3	GX3348 Calibration/Verification Service - 3 years. Includes pre-verification data (post calibration data provided if applicable)
GX3348-CAL-5	GX3348 Calibration/Verification Service - 5 years. Includes pre-verification data (post calibration data provided if applicable)
CALIBRATION	
CalEasy-GX3348	CalEasy for the GX3348 (Single User License) with One Year Support and Subscription
CalEasy	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with One Year Support and Subscription
CalEasy-2Y	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with Two Year Support and Subscription
CalEasy-3Y	CalEasy License for all Supported Marvin Test Solutions Products (Single User License) with Three Year Support and Subscription
GX3348-CAL	GX3348 Calibration/Verification Service. Includes pre-verification data (post calibration data provided if applicable)
GX3348-CAL-3	GX3348 Calibration/Verification Service - 3 years. Includes pre-verification data (post calibration data provided if applicable)
GX3348-CAL-5	GX3348 Calibration/Verification Service - 5 years. Includes pre-verification data (post calibration data provided if applicable)