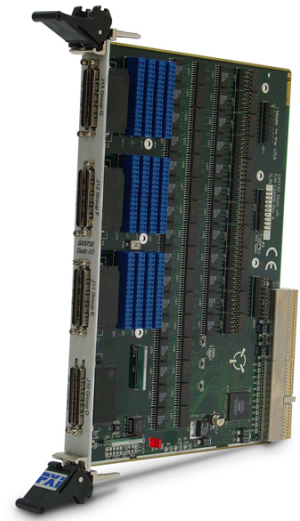


# GX5732



## 224 TTL CHANNELS, DIGITAL I/O WITH 4 COUNTERS PXI CARD

- Highest PXI digital I/O channel density in the industry
- Seven 32-bit ports for a total of 224 input or output channels
- TTL Levels
- Four 8-bit, 50 MHz counters



## DESCRIPTION

The GX5732 is a 6U PXI static digital I/O card with 224 TTL I/O channels. Designed for ATE, data acquisition, or process control systems where a large number of discrete I/O channels are required, the GX5732 offers the highest digital channel density in the industry for a single PXI plug-in board.

## FEATURES

The GX5732 provides 224 TTL channels that are programmable for either inputs or outputs in groups of eight. The GX5732 has no on-board memory and uses the computer's memory and CPU power for data transfer.

The GX5732 also has four 8-bit, bi-directional, 50 MHz counters. Eight I/O pins on the counter port can be used as inputs or outputs to any of the counters. An additional 4 outputs can be used as counter outputs or as a Terminal Counts (TC) for all counters. Six programmable inputs are provided for counter control: clock, gate, or load. The counters may be daisy chained to create two 16-bit counters, or one 32-bit counter. The clock source can be the PCI clock, PXI clock, an external clock, or another counter.

## PROGRAMMING AND SOFTWARE

The board is supplied with the GXPIO library, 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

- Factory Automation
- Process Control
- Data Acquisition
- Automatic Test Equipment (ATE)



# GX5732



## SPECIFICATIONS

I/O CHANNELS	
Number of Digital Channels	224
Digital Logic Levels	Logic Low: 0 V (min); 0.8 V (max) Logic High: 2.0 V (min); 5.0 V (max)
Digital Channel Input / Output Configuration	Configurable in groups of 8
Number of Counters	Four 8-bit, bi-directional
Maximum Counter Rate	50 MHz
POWER	
3.3 V <sub>DC</sub>	0.5 A
5 V <sub>DC</sub>	1.3 A
ENVIRONMENTAL	
Operating Temperature	0 °C to +55 °C
Storage Temperature	-20 °C to +85 °C
Size	6U PXI
Weight	18 oz

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

<b>GX5732</b>	Static I/O Board with 224 TTL I/O Channels and four 8-bit Counters
ACCESSORY	
<b>TS-900e-5G-BMC</b>	Blind mate connectors (one pair), DC - 40 GHz, 2.92mm
<b>GT95015</b>	Connector Interface for all Gx5xxx/GX3xxx, SCSI to 100 Mil Grid, Differential
<b>GT95021</b>	2 ft. Shielded Cable for all 5xxx/35xx (68 Pin)
<b>GT95022</b>	3 ft Shielded Cable for all 5xxx/35xx (68 Pin)
<b>GT95022E</b>	3 ft Shielded Cable for all 5xxx/35xx (68 Pin) Not Terminated One End
<b>GT95028</b>	10 ft shielded cable for 5xxx/35xx products (68 Pin)
<b>GT95031</b>	6 ft Shielded Cable for all 5xxx/35xx (68 Pin)
<b>GT95035E-48</b>	Shielded Flying Lead Cable for all 5xxx/35xx (68 Pin), 48".
<b>GX98603</b>	6U "Wireless" Scout Adapter for GX5731/GX5732 (2 x 200-Pin Scout Signal Connectors)