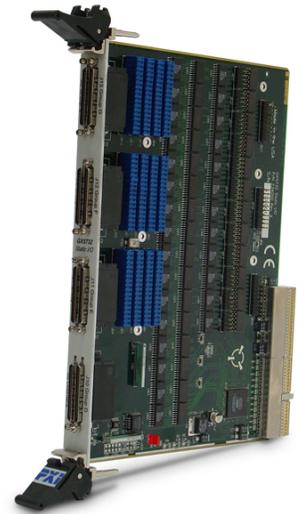


# GX5732



## 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)<br>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 5xxx/35xx, 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) |