

# GX5732 SERIES

## 6U PXI STATIC DIGITAL I/O CARD

- 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 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 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 has four 8-bit, bi-directional, 50-MHz counters. Eight I/O pins on the counter port can be used as input or output to any of the counters. An additional 4 outputs can be used as output of any of the counters, or as a Terminal Count (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 PCI clock, PXI clock, external clock, or another counter.

## SOFTWARE

The GX5732 is supplied with a virtual instrument panel, which includes the 32-bit DLL driver libraries and documentation. The virtual panel can be used to interactively adjust and control the instrument from a window that displays the current instrument settings and measurements.

In addition, various interface files provide access to the library for programming tools and languages such as ATEasy, Microsoft® and Borland® C/C++, Microsoft Visual Basic®, Borland Delphi, LabVIEW, and more.

## APPLICATIONS

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

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## SPECIFICATIONS

TTL I/O LEVELS:	MIN	MAX
LOW	0 V	0.8 V
HIGH	2.0 V	5.0 V
<b>NUMBER OF CHANNELS:</b>	224	
<b>NUMBER OF COUNTERS:</b>	Four 8-bit, bi-directional	
<b>MAX. COUNTER RATE</b>	50 MHz	
<b>POWER</b>		
3.3 VDC	0.5 A	
5VDC	1.3 A	
<b>ENVIRONMENTAL</b>		
<b>OPERATING TEMPERATURE</b>	0 to 55° C	
<b>STORAGE TEMPERATURE</b>	-20° C to 85° C	
<b>SIZE</b>	6U PXI	
<b>WEIGHT</b>	18 oz	

Note: Specifications are subject to change without notice.

## ORDERING INFORMATION

<b>GX5732</b>	Static Digital I/O Board
<b>GT95014</b>	Connector interface for GX5xxx/GX5732, SCSI to 100 Mil Grid, Single Ended
<b>GT95015</b>	Connector interface for GX515x, SCSI to 100 Mil Grid, Differential
<b>GT95020</b>	Connector I/F for GX515x, SCSI to 100 Mil Grid, single ended (both 64 & 14 pin)
<b>GT95021</b>	2' shielded cable for GX5732 (68-pin)
<b>GT95022</b>	3' Shielded cable for GX5732 (68-pin)
<b>GT95028</b>	10' Shielded cable for GX5732 (68-pin)
<b>GT95031</b>	6' Shielded cable for GX5732 (68-pin)

COUNTER CONNECTOR (J6)			
CP0	1	35	GND
CP1	2	36	GND
GND/CP2	3	37	GND
CP3	4	38	GND
CP4	5	39	GND
CP5	6	40	GND
CP6	7	41	GND
CP7	8	42	GND
TCP0	9	43	GND
TCP1	10	44	GND
TCP2	11	45	GND
TCP3	12	46	GND
Reserved	13	47	GND
Reserved	14	48	GND
Reserved	15	49	GND
Reserved	16	50	GND
UL0	17	51	GND
UL1	18	52	GND
UL2	19	53	GND
UL3	20	54	GND
UL4	21	55	GND
UL5	22	56	GND
NC	23	57	GND
NC	24	58	GND
NC	25	59	GND
NC	26	60	GND
NC	27	61	GND
NC	28	62	GND
NC	29	63	GND
NC	30	64	GND
NC	31	65	GND
NC	32	66	GND
VCC	33	67	VCC
GND	34	68	GND

TTL PORTS (J7-J13)			
IO <sub>n</sub> 0	1	35	GND
IO <sub>n</sub> 1	2	36	GND
IO <sub>n</sub> 2	3	37	GND
IO <sub>n</sub> 3	4	38	GND
IO <sub>n</sub> 4	5	39	GND
IO <sub>n</sub> 5	6	40	GND
IO <sub>n</sub> 6	7	41	GND
IO <sub>n</sub> 7	8	42	GND
IO <sub>n</sub> 8	9	43	GND
IO <sub>n</sub> 9	10	44	GND
IO <sub>n</sub> 10	11	45	GND
IO <sub>n</sub> 11	12	46	GND
IO <sub>n</sub> 12	13	47	GND
IO <sub>n</sub> 13	14	48	GND
IO <sub>n</sub> 14	15	49	GND
IO <sub>n</sub> 15	16	50	GND
IO <sub>n</sub> 16	17	51	GND
IO <sub>n</sub> 17	18	52	GND
IO <sub>n</sub> 18	19	53	GND
IO <sub>n</sub> 19	20	54	GND
IO <sub>n</sub> 20	21	55	GND
IO <sub>n</sub> 21	22	56	GND
IO <sub>n</sub> 22	23	57	GND
IO <sub>n</sub> 23	24	58	GND
IO <sub>n</sub> 24	25	59	GND
IO <sub>n</sub> 25	26	60	GND
IO <sub>n</sub> 26	27	61	GND
IO <sub>n</sub> 27	28	62	GND
IO <sub>n</sub> 28	29	63	GND
IO <sub>n</sub> 29	30	64	GND
IO <sub>n</sub> 30	31	65	GND
IO <sub>n</sub> 31	32	66	GND
VCC	33	67	VCC
GND	34	68	GND