

GX1648 SERIES

3U PXI ANALOG OUTPUT BOARD

- 64 individual analog outputs
- 12-bit Resolution
- Output Range: -10 V to +10 V
- Output Current: +/-10 mA per channel
- Update Rate: 20 KHz
- Settling time: 50 μ Sec
- Simultaneous updating on all channels



DESCRIPTION

The GX1648 is a 3U PXI digital to analog output board is designed specifically for applications where multiple analog outputs are required. The GX1648 offers precision signal sourcing performance and quality at an economical price.

FEATURES

The GX1648 is organized into groups of eight channels. Each group is programmed and triggered independently of the others. All groups can also be updated simultaneously. All channels provide single-ended voltage and are automatically at zero volts DC after reset to prevent inadvertent damage to external equipment.

SOFTWARE

The GX1648 is supplied with 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, LabVIEW, LabWindows, Microsoft® and Borland® C/C++, Microsoft Visual Basic®, Borland Delphi, and more.

APPLICATIONS

- Discrete avionics testing
- Automatic Test Equipment (ATE)
- Multiple DC source

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SPECIFICATIONS

NUMBER OF OUTPUT CHANNELS	64
OUTPUT VOLTAGE RANGE	-10 V to +10 V
NUMBER OF RANGES	4 (each group)
SELECTABLE OUTPUT VOLTAGE RANGES	0-10 V, ± 10 V 0-5 V, ± 5 V
RESOLUTION	12-bit
ACCURACY	3mV ± 1 LSB
SLEW RATE	0.5 V/ μ s
SETTLING TIME	50 μ s to 0.1%
MAX. CURRENT PER CHANNEL	10 mA
POWER SUPPLY 5 VDC CURRENT	2.5 A (Max.)
OPERATING TEMPERATURE	0° to +55 °C
STORAGE TEMPERATURE	-20° C to +70° C
SIZE	3U PXI
WEIGHT	12 oz.
CONNECTOR	78-pin D-Type

Note: Specifications are subject to change without notice.

ORDERING INFORMATION

GX1648	64 Channel PXI D/A Board
GT96107	3' harness, 78-pin male connector on both ends
GT96104	1' harness, 78-pin male connector on both ends

OUTPUT CHANNELS CONNECTOR (J3)			
ChA0	1	40	ChC0
ChA1	2	41	ChC1
ChA2	3	42	ChC2
ChA3	4	43	ChC3
ChA4	5	44	ChC4
ChA5	6	45	ChC5
ChA6	7	46	ChC6
ChA7	8	47	ChC7
ChA8	9	48	ChC8
ChA9	10	49	ChC9
ChA10	11	50	ChC10
ChA11	12	51	ChC11
ChA12	13	52	ChC12
ChA13	14	53	ChC13
ChA14	15	54	ChC14
ChA15	16	55	ChC15
ExUpdateA	17	56	ExUpdateC
External Update A11	18	57	TTL Out
GND	19	58	GND
GND	20	59	GND
ChB0	21	60	ChD0
ChB1	22	61	ChD1
ChB2	23	62	ChD2
ChB3	24	63	ChD3
ChB4	25	64	ChD4
ChB5	26	65	ChD5
ChB6	27	66	ChD6
ChB7	28	67	ChD7
ChB8	29	68	ChD8
ChB9	30	69	ChD9
ChB10	31	70	ChD10
ChB11	32	71	ChD11
ChB12	33	72	ChD12
ChB13	34	73	ChD13
ChB14	35	74	ChD14
ChB15	36	75	ChD15
ExUpdateB	37	76	ExUpdateD
GND	38	77	GND
GND	39	78	GND