

GT7864 SERIES



MULTI-CHANNEL PROGRAMMABLE DISCRETE OUTPUT GTXI CARD

- High density Discrete Outputs (32 or 64 channels)
- Four programmable Voltage Rails
- Output voltage ranges from -10 V to +32 V
- 14-bit resolution
- 100 mA per voltage rail
- DISCONTINUED - SEE DETAILS BELOW



*****PRODUCT AVAILABILITY*****

This product has been discontinued.

The initial release of this product was approximately 1990.

Please contact the factory for availability and alternate product offerings.

Please review the GX5xxx Series for the latest product alternatives.

DESCRIPTION

The GT7864 is a multi-channel programmable discrete output board that provides test engineers with multiple discrete outputs for avionics and other ATE testing applications. The GT7864 provides 32 or 64 output channels (depending on the model) and four Voltage Rails. Each of the output channels can be set to High, Low, or Open state. Voltage Rails A through D are voltage sources for the High and Low states.

ARCHITECTURE

The GT7864 occupies one GTXI slot and is available in four versions, A through D. Models A and B provide 32 output channels, while models C and D provide 64 output channels.

The GT7864 provides self-test capabilities using a measurement channel (at the GT7864's connector). The measurement channel may be routed to any of the four Voltage Rails using software, thus allowing direct access to the internal DACs for calibration and BIT. The four DACs and four external sources are also routed to the GTXI's local bus connector. The internal bus allows multiple GT7864s to share voltage sources.

The GT7864 provides an onboard EEPROM that contains the DAC calibration parameters and the output channel-to-voltage rail assignment information.

PROGRAMMING AND SOFTWARE

The board is supplied with a 32-bit DLL, 16 bit DLL and DOS static libraries. Various interface files provide access to the DLL from programming tools and languages such as ATEasy, LabVIEW, C/C++, Microsoft Visual Basic®, Delphi, and more. The available virtual panel can be used to interactively adjust and control the instrument from a window that displays the current instrument settings and measurements.

On-Line help file and PDF User's Guide provides documentation that includes instructions for installing, using and programming the board.

APPLICATIONS

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



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SPECIFICATIONS

Maximum Current per Channel	200 mA
External source	100 mA
Internal DACI	
Output Voltage Ranges Custom ranges are available	
DAC A & DAC B	10 V to 32 V
DAC C	-5 V to 5 V
DAC D	-0.5 V to 0.5 V
Resolution	14-bit
Accuracy	$\pm 1 \text{ LSB} \pm 10 \text{ mV}$
Output Coupling	DC
Protection	Short-circuit ground
Power-on-State	All open

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GT7864C	Programmable Discrete Outputs, 64 Channels, Jumper Configuration
GT7864D	Programmable Discrete Outputs, 64 Channels, Relay Configuration