# GX7404

## POWER INTERFACE AND PROTOTYPE PXI CARD

- +3.3 V, +5 V, +12 V, and -12 V voltage outputs
- Software controlled on/off switching
- Monitors voltage and current remotely
- External power inhibit line
- On-board prototyping area
- 3U PXI Instrument



## DESCRIPTION

The GX7404 power interface board offers a low cost method for providing controlled power to UUT interface and test circuitry. The GX7404 provides +5 V, +3.3 V, +12 V, and -12 V voltage outputs which are present on the PXI motherboard to be switched through a DB25 connector for use by a UUT (unit under test) and / or interface circuitry.

## FEATURES

The GX7404 is configured with four relays that switch voltages to the DB25 inteface connector. Each voltage is fused and an optional UUT discharge component may be added.

In addition, the GX7404 has special features, including external inhibit, UUT discharge, and a prototype area. The external inhibit is a TTL compatible input that removes all voltages from GX7404's outputs. The prototype area of the board can be populated with UUT discharge components. Each of the four relays on the board can switch the UUT load between the GX7404 outputs and the discharge components.

The GX7404 provides an 13 row by 15 column prototype area on 100 mil centers. Power rails are present in the prototype area.

## PROGRAMMING AND SOFTWARE

The GX7404 is supplied with the GXPXI software package which includes a virtual instrument panel, a Windows 32/64-bit DLL driver libraries 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

- Automatic Test Equipment
- Power source for interfacing circuitry
- Power source for test target circuitry

# GX7404

## SPECIFICATIONS

| POWER OUTPUT* | |
|---|---|
| +3.3 V | 2 A (max) |
| +5 V | 2 A (max) |
| +12 V | 0.5 A (max) |
| -12 V | 0.5 A (max) |

| CURRENT READ BACK | |
|---|---|
| Resolution | 16-bits |
| Accuracy | ±1 mA |

| VOLTAGE READ BACK | |
|---|---|
| Resolution | 12 bits |
| Accuracy | ±10 mV |

| PROTECTION CIRCUITRY | |
|---|---|
| Isolation Relays | All output channels |
| Remote Inhibit | Opens all output channel relays |
| Fuse (3.3 V, 5 V) | 2 A, 2 AG Fast Acting |
| Fuse (±12 V) | 0.5 A, 2 AG Fast Acting |
| UUT Discharge | Discharge resistor footprint provided on the GX7404. Not installed by default. User specified. |

| ENVIRONMENTAL | |
|---|---|
| Operating Temperature | 0 °C to +55 °C |
| Storage Temperature | -20 °C to +70 °C |
| Size | 3U PXI |
| Weight | 12 oz |

\* No line sensing available

Note: Specifications are subject to change without notice

## ORDERING INFORMATION

| GX7404 | Power Interface & Prototyping Card |
|---|---|
| ACCESSORY | |
| GX91801 | 25 Pin Male mating connector for GX1838/GX1164 |
| GX91802 | 25 Pin Male mating connector for GX1838/GX1164 with a 3' unterminated harness |
| GX91803 | 3' harness for GX1838/GX1164, 25 pin male/female connectors on both ends |

**POWER SUPPLIES**

**MARVIN TEST SOLUTIONS**