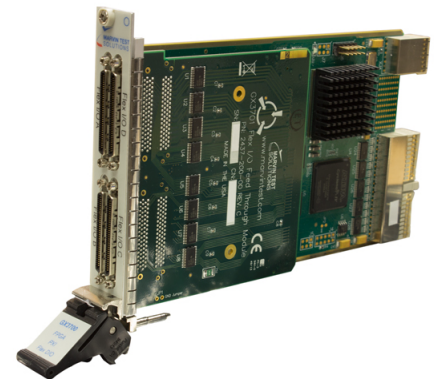# GX3701

MARVIN TEST SOLUTIONS

FLEX I/O FEED THROUGH EXPANSION BOARD FOR GX3700 / GX3700E FPGA MODULE

- Compatible with GX3700 and GX3700e FPGA modules
- 160 digital I/O signals available for user specific applications
- Interfaces to the user FPGA, provides isolation and overvoltage protection of all FPGA I/O signals

DESCRIPTION

The GX3701 is daughter board assembly that is compatible with the GX3700 and GX3700e FPGA modules and is supplied with the GX3700 and GX3700e modules as a complete assembly. The board supports 160 digital I/O signals for single-ended or differential interfaces.

FEATURES

The GX3701's digital I/O signals are 5 V tolerant and uses analog switches, allowing isolation of each signal line as well as supporting various logic families including LVTTL, LVDS and LVCMOS. Output signal connections are supported by (4) VHDC, 68 pin connectors.

APPLICATIONS

- GX3700 FPGA module
- GX3700e FPGA module

OTHER

GX3701

SPECIFICATIONS

DIGITAL I/O CHANNELS	
Channels	160 I/O signals Direction is configurable on a per channel basis Up to 84 I/O can be differential (42 differential channels) (4) I/O are single-ended or (2) differential clock inputs
Logic Families	LVTTL, LVDS, configurable for 1.2 / 2.5 / 3.3 V logic; 5 V compatible
Output Current	±12 mA, sink or source max., programmable via the FPGA
Input Leakage Current	±10 uA
Power on State	Default is disconnect at power on (unprogrammed FPGA) or defined by FPGA program
Protection	Overvoltage: -0.5 V to 7.0 V (input) Short Circuit: up to 8 outputs may be shorted at a time
Connector	(4) SCSI III, VHDCI type, 68 pin female
EXPANSION BOARD INTERFACE	
Board ID	4 bits
External Digital I/O Interface	160, up to 84 differential I/O Can be configured as 42 differential I/O
ENVIRONMENTAL	
Operating Temperature	0 °C to +50 °C
Storage Temperature	-20 °C to +70 °C
Size	3U PXI
Weight	200 g

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX3701	Flex I/O Feed Through Expansion Board for GX3700 / GX3700e FPGA Module
ACCESSORY	
GT95021	2 ft. Shielded Cable for all 5xxx/35xx (68 Pin)
GT95022	3 ft Shielded Cable for all 5xxx/35xx (68 Pin)
GT95028	10 ft shielded cable for 5xxx/35xx products (68 Pin)
GT95031	6 ft Shielded Cable for all 5xxx/35xx (68 Pin)

OTHER