

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

M5302A PXIe Digital I/O: 28 LVDS Channels, 8 Trigger Channels





Single-Slot Digital IO PXIe Module

Highlights Specifications

HIGHLIGHTS

28 LVDS Channels, 8 Trigger Channels

M5302A is a single-slot Digital IO PXIe module with 28 programmable LVDS channels and 8 single-ended channels. The LVDS channels can be used to communicate to the device under test or can be used to control other devices by emulating protocols such as Camera Link. The single-ended channels are suitable for event triggers or other general-purpose IO applications.

- Single PXIe slot
- General purpose customizable I/O module
- Kintex UltraScale+ FPGA with optional PathWave FPGA support
- 28 bidirectional LVDS IO channels
- 4 general purpose IO channels
- 8 bidirectional general-purpose trigger I/O channels

- Optional timing correlation and HVI-2 sequencer support / PathWave Test Sync Executive support

KEYSIGHTCARE

KEY SPECIFICATIONS

Bus Interface / Compatibility

PXIe Peripheral Module (x8 Gen 3)

Number of Slots

1

Volatile Module Memory
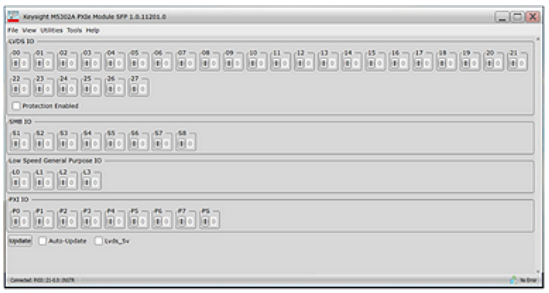
8 GB (DDR4)

LVDS Connector

ERF8-050

Trigger Channels Connector

SMB male (8)



M5302A SOFTWARE

The M5302A has a Soft Front Panel (SFP) that provides a simple interface to the digital IO module. It covers the basic operation of the instrument and is especially useful for initially getting acquainted with the instrument before software programming is started. It also gives you the ability to debug your system and monitor driver calls.

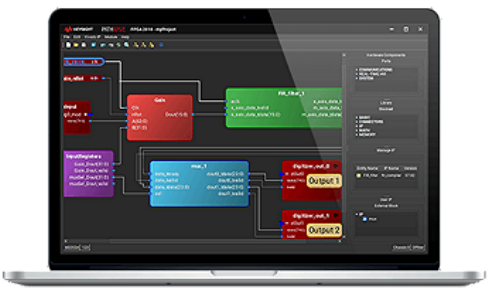
The M5302A comes with IVI.NET, IVI-C, and IVI-COM drivers to enable easy integration into common test development environments. In addition, a Python interface is also provided with the module.

;

PATHWAVE FPGA

PathWave FPGA is a system-level FPGA development environment that enables you to open up and customize the M5302A. When combined with the option PWP, you now have access to the user-programmable FPGA and can insert your custom logic into the instrument. You can begin from HDL or a design in the included library and add or import Vivado, SystemVue, and MATLAB components. Key benefits include:

- Process signals in real-time or accelerate bottleneck operations by running as hardware-in-the-loop
- Achieve your test requirements by inserting your own IP into the instrument
- Scale-up designs or channel counts by adding multiple M5302As





PATHWAVE TEST SYNC EXECUTIVE

The PathWave Test Sync Executive enables rapid development of high-performance, multi-channel, real-time synchronous solutions. It is enabled on the M5302A with option HV2 and has seamless interaction with PathWave FPGA (option PWP). The Sync Executive features:

- Transparent multi-mode synchronization by precisely time aligning multiple M5302A channels in the same module or across several modules
- Real-time synchronous execution including sequencing, branching, and looping
- Time-deterministic hardware-based execution

© Keysight Technologies 2000–2022 | Privacy | Terms | Feedback

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP