

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.

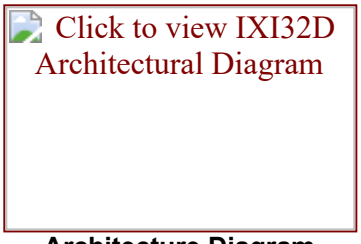
Visit our website - *Click HERE*

IXI32D

32-Bit High Speed Differential Interface



Board Photo



Architecture Diagram

Features

- Robust Multi-Drop Interface
  - 32-bit Differential Digital I/O
  - Bidirectional Transfers
  - Supports 1 Master & 4 Slaves
  - Address/Broadcast Modes
  - Message Passing Capability
- 100MBytes/s Throughput
- Differential Transmission: up to 50 Foot Cable Lengths
- RS-422/485 Compatible
- Separate I/O FIFO Banks

General Description

The IXI32D is a standard IXI interface mezzanine module designed for use with IXI compatible baseboards, including the IXZ and IXD families of signal processing boards. The module consists of a full master and slave input/output which provides a 32-bit differential interface, capable of supporting transfer rates up to 100MBytes/sec.

The IXI32D allows bi-directional data transfers between a master device and up to 4 slaves. These transfers can be addressed or broadcast. The master device has the capability to govern the transfer rate of any or all of the slaves to accommodate slower devices. Slaves have the ability to halt the transfer of data within 8 cycles if necessary. An IXI32D can generate a global reset to reset all FIFOs on other IXI32Ds. In addition, each IXI32D can also independently reset both its input and its output FIFO. The Master can send a global reset to all devices to guarantee startup conditions.

The external connection is implemented with an 80-pin IDC connector for use with standard 25mil pitch ribbon cable. The cable may be daisy-chained to connect up to 5 boards (1 master and 4 slaves); total cable length can be as great as 50 feet.

The IXI32D board has FIFO buffers in the signal input and output paths, allowing factory configuration of larger buffer sizes or downgrades to smaller buffers, slower FIFOs, or even unidirectional operation. The standard configuration consists of 4Kx32 FIFOs in both directions, which allows full speed operation at 25M transfers/s (100MBytes/s).

A control register and a status register on the IXI32D are accessible by the host processor. The control register sets the operating mode and conditions of the individual modules, while the status register may be read by the host processor to query the status to each IXI32D.

The IXI32D has a transfer clock that is jumper selectable. The clock sources available are: the on-board crystal oscillator; the strobe passed by the master IXI32D; or the baseboard timer signal. The crystal oscillator is socketed for field replacement, allowing changes in the operating frequency of the interface.

The IXI family of interface mezzanines complies with the IXI Design Specifications published by Ixthos. The electrical interface to an IXI mezzanine consists of 73 signals: 32 data lines, 24 address lines, 11 control lines, digital power & ground, 3 analog powers (+5, +12, -12) & analog ground. These connections to the baseboard are made via an elastomeric connector that provides a high density, low resistance, zero insertion force connection. Standard board separations of 0.125" to 0.375" are low enough to ensure a single-slot solution for most applications while providing enough room for double-sided population.

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