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

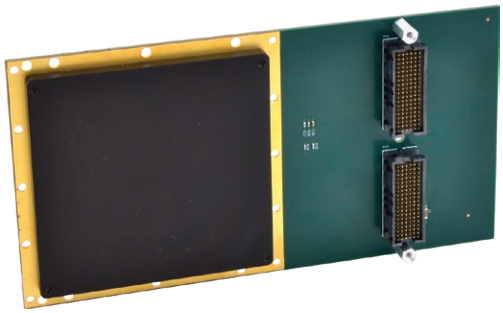
Expert team | Trust guarantee | 100% satisfaction

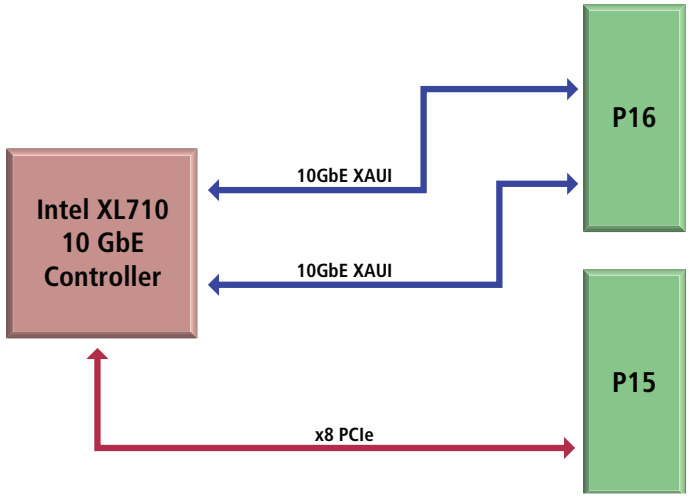
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Acromag XMC632-42-50* at our website: ***Click HERE***

XMC Modules

XMC632 10-Gigabit Ethernet Network Interface Card (NIC)





Dual XAUI ports ◆ Intel® XL710 Controller ◆ PCIe Gen 3 x8 interface ◆ Conduction-cooled

Description

Acromag's XMC632 module provides up to two 10-GbE XAUI interface ports. Different models are available for VITA 42/61 connector options to support a PCIe Gen 3 interface. The rugged, rear I/O design is ready for use in conduction-cooled systems for extreme temperature environments.

Intel's XL710 quad-port 10-gigabit Ethernet controller delivers high-performance and offers many powerful networking capabilities. Advanced virtualization, intelligent offload and accelerator technologies optimize network performance.

Combining the intelligent off-loading features of the XL710 controller with the processing power of a Xeon-D processor can deliver outstanding performance levels. Together, the two Intel devices provide a balanced hybrid solution of compute and off-load to achieve optimal performance and efficiency in an embedded system.

Designed for COTS applications, these rugged XMC mezzanine modules offer a high-density, high-performance solution for network interface applications. They are ideal for use in defense, aerospace, industrial, and scientific research computing systems.

Key Features & Benefits

- Industry-leading Intel XL710 controller with four independent 10-GbE interfaces
- Two XAUI interfaces available as rear I/O via the P16 connector
- PCIe x8 Gen 3 interface
- IEEE 1588 and 802.1AS precision timing
- IEEE 802.3az Energy Efficient Ethernet (EEE)
- Advanced traffic steering capability increases transaction rates and reduces latency
- VMDq for emulated path
- Dynamic load balancing
- Flexible port partitioning (PCI-SIG SR-IOV)
- Tx/Rx IP, TCP/UDP/SCTP, IPv4/IPv6 checksum offloads lower processor usage
- Jumbo frame packet support up to 9.5KB
- Up to -40 to 85°C operation
- Linux® and Windows® support
- CE compliant.

Acromag® THE LEADER IN INDUSTRIAL I/O

Tel 844-878-2352 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

XMC Modules

XMC632 10-Gigabit Ethernet Network Interface Card (NIC)

CE RoHS Compliant 2 YEAR WARRANTY

Performance Specifications

Communication

Ethernet Controller
Intel® XL710

Network Interface
Four XAUI 10-Gigabit Ethernet interfaces.

Complies with IEEE 802.3-2008 standard for Ethernet.

Complies with IEEE 802.3ae-2002 amendment for 10 Gb/s Ethernet.

Throughput
10,000 MB/s (10GB/s) per port, full-duplex.

Total aggregate rate limited by PCIe host interface.

XMC Host Interface

XMC Compliance
Complies with ANSI/VITA 42.0 specification for XMC module mechanicals and connectors.

Complies with ANSI/VITA 42.3 specification for XMC modules with PCI Express interface.

Complies with ANSI/VITA 42.6 specification for XMC 10 Gigabit Ethernet 4-Lane Protocol Layer Standard.

PCI Express
Conforms to PCI Express Base Specification, Rev. 3.1.

PCIe 8-lane (x8) Gen 3 interface operates at a bus speed of 8 Gbps per lane per direction.

Gen 3 PCIe interface requires VITA 61 connectors.

Gen 2 PCIe interface supported w/ VITA 42 connectors

Electrial / Mechanical

XMC Connectors
P15 for PCIe bus via eight high-speed serial lanes.

P16 for two 10GbE XAUI interfaces.

Available as VITA 42 standard or VITA 61 upgrade for PCIe Gen 3 applications.

Power Requirement
3.3V: 220mA idle, 220mA active, 330mA max.

5.5V: 450mA idle, 500mA active, 1025mA max.

12V: 215mA idle, 235mA active, 455mA max.

Power: 2.8W idle, 3.1W active, 5.7W max.

Dimensions
Single-width XMC. 149 x 74 x 10 mm.

Unit weight: 76.9 g.

Environmental

Operating Temperature Range
Operation: -40 to 85°C (conduction-cooled).

Storage: -55 to 125°C.

Relative Humidity
5 to 95% non-condensing.

Shock
Designed to comply with VITA 47 Class OS1.

Vibration
Designed to comply with VITA 47 Class V1.

Certifications
CE compliant.

Software Support

Linux® and Windows® Systems
Intel XL710 Ethernet Controller drivers available at www.intel.com.

Ordering Information

XMC Modules

XMC632-42-50
10GbE NIC with dual XAUI rear I/O, VITA 42

XMC632-61-50
10GbE NIC with dual XAUI rear I/O, VITA 61

Carrier Cards

PCIe Carriers

VPX Carriers

ISO9001
AS9100
MADE IN USA

Acromag
THE LEADER IN INDUSTRIAL I/O

Tel 844-878-2352 ■ solutions@acromag.com ■ www.acromag.com ■ 30765 Wixom Rd, Wixom, MI 48393 USA

All trademarks are property of their respective owners. Copyright © Acromag, Inc. 2019. Data subject to change without notice. Printed in USA 10/2019

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