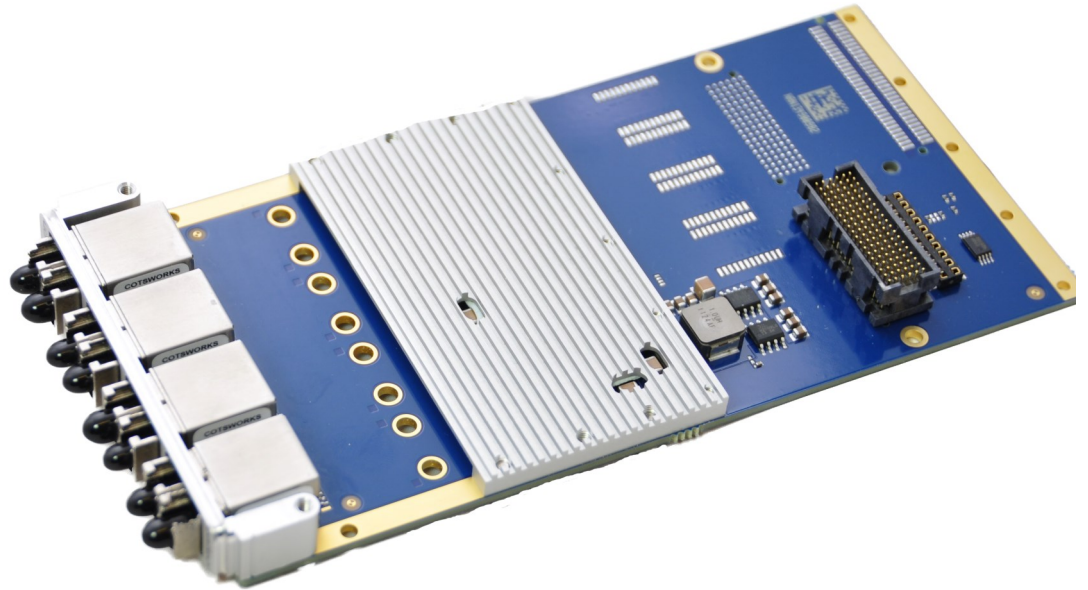


Galleon Quad Gigabit Ethernet XMC Rugged Optical LC



KEY FEATURES

- 4 Channel Optical Gigabit Ethernet
- Gen 2 PCI Express x4 (5GT/s) host interface
- Rugged Optical Duplex LC or rear I/O Gigabit Ethernet Interfaces
- Air and Conduction Cooled Variants
- Windows and Linux Drivers

APPLICATIONS

- Server Applications
- Network Attached Storage Devices
- Flight Test
- High Speed Sensor Data Recording and simulation
- Video over Ethernet Data Capture
- Geological Survey and Seismic

BENEFITS

- High Performance
- Low Power
- Air and Conduction Cooled

Titan Quad Gigabit Ethernet XMC

The Galleon Titan Quad Gigabit Ethernet XMC offers high performance Ethernet for a wide range of applications. Based on the high performance Intel i350 quad port Gigabit Ethernet controller, the Titan Quad Gigabit Ethernet XMC supports IEEE 1588 Precision Time Protocol (PTP), making it suitable for time critical applications. Providing UDP, TCP and IP checksum offload functionality.

The board can be fitted with rugged front panel connectors, or recessed rugged optical connectors for easy in-box cabling in conduction cooled environments. These are 1000BASE-LX optical connectors and the interfaces use 850nm multimode fiber connections.

Rear I/O variants support 1000BASE-T through P14 and 1000BASE BX/KX through P16.

The Titan Quad port Gigabit Ethernet XMC is available in both air cooled and conduction cooled variants and fit a wide range of singleboard computers (SBCs) in CPCI, VME or VPX form factor. A x4 PCI Express Gen2 host interface capable of running at 2.5GT/s and 5.0GT/s ensures high bandwidth to the host.

An optional PCI Express card edge adapter offers easy integration in standard desktop systems for non rugged applications and SW development.

The Titan Quad Gigabit Ethernet board ships with both Linux and Windows software drivers.

Galleon Quad Channel Optical Gigabit Ethernet XMC

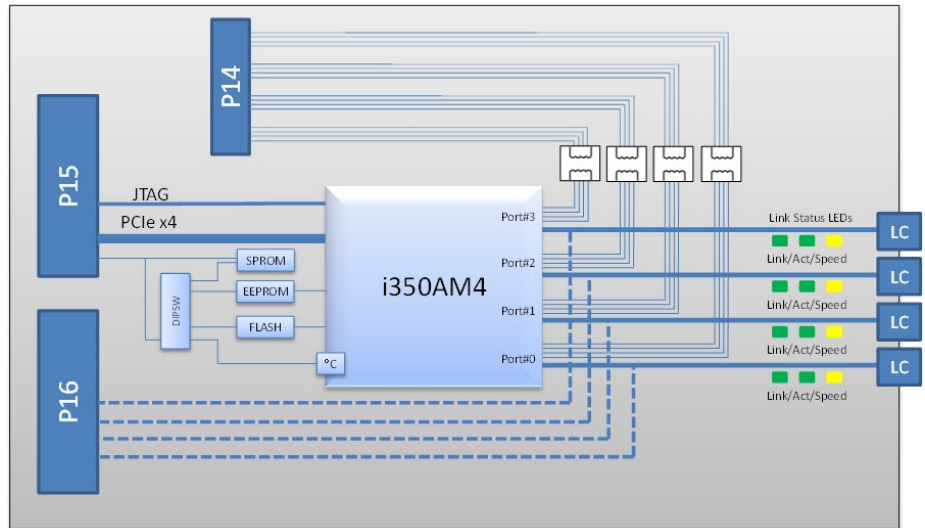


Diagram includes all IO options, contact factory for specific configuration

Quad Optical Gigabit Ethernet XMC Highlights

The Galleon quad channel Gigabit Ethernet XMC is a high performance Ethernet NIC suitable for a wide range of applications, such as video over Ethernet, sensor data recording, flight test, server applications, Network Attached Storage, etc.

The high performance Intel i350 Ethernet controller offers guaranteed compatibility with existing Ethernet infrastructure. The board is delivered with drivers for a wide range of Linux distributions, Windows XP, Windows 7 and Windows 8 as well as FreeBSD.

Technical Specification

Ethernet Controller

- Intel i350AM4

Interfaces

- 4x Channels
- Gigabit Ethernet
- 850nm MM Transceivers
- Front Panel Duplex Optical Connectors
- Optional rear I/O interface (XMC P16, PMC P14)
- Optional recessed connectors for easy internal cabling in conduction cooled systems without front panel connections

Ethernet Capabilities

- UDP, TCP and IP Checksum Offload
- Support up to 8 VMs per port
- 8 TX and 8 RX Queues per port
- IEEE 1588 PTP Support
- Per Packet Timestamp

XMC Interface

- x4 PCI Express 2.1 Gen2 (5GT/s)

Galleon Embedded Computing

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Operating Temperature

- -40°C to +71°C Rugged Air Cooled
- -40°C to +85°C Rugged Conduction Cooled
- Conformal Coating on all models

Shock & Vibration

- Tested to MIL-STD-810G

Altitude

- -1500 to 40000 ft (standard)
- -1500 to 80 000 ft (extended temp variant)

Size, Weight & Power

- Weight: 150g (Configuration dependent)
- Power, 4 optical channels active: 6W (typ)
- Power, 4 copper channels active: 5W (typ)

Software

- Linux and Windows Drivers

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