

# TITAN DUAL 25GBE XMC

## Rugged Optical Modules

The Galleon Titan Dual 25Gigabit Ethernet XMC offers high-performance Ethernet for a wide range of applications. Based on the latest Intel XXV710 25GbE Controller, the Titan Dual channel 25GbE XMC supports IEEE 1588 Precision Time Protocol (PTP), making it suitable for time-critical applications. The XXV710 offers the latest UDP, TCP, SCTP and IP checksum offload.

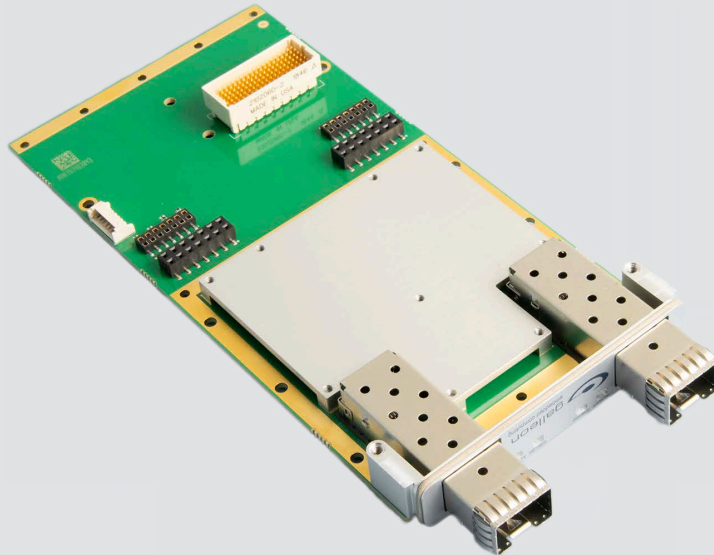
The board can be fitted with up to two rugged front panel modules or recessed rugged optical modules for easy in-box optical cabling in conduction-cooled environments using multi-mode fiber connections. The 25GBASE-SR connector interface uses 850nm multi-mode fiber connections.

The Titan Dual 25GbE XMC is available in both air-cooled and conduction-cooled variants to fit a wide range of single-board computers (SBCs) in CPCI, VME or VPX form factor. An x8 PCI Express Gen3 host interface capable of running 2.5GT/s, 5.0GT/s and 8.0GT/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 software development. The Titan Dual Gigabit Ethernet board ships with both Linux and Windows software drivers.

Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100 and ISO 9001.

### TITAN DUAL 25 GIBABIT ETHERNET XMC



#### KEY FEATURES

- 2 channel optical 10/25GbE
- PCIe v3.0, x8 (8GT/s) host interface
- Intelligent offloads enable high network performance
- Rugged optical duplex 25 Gigabit Ethernet interfaces
- Windows and Linux drivers

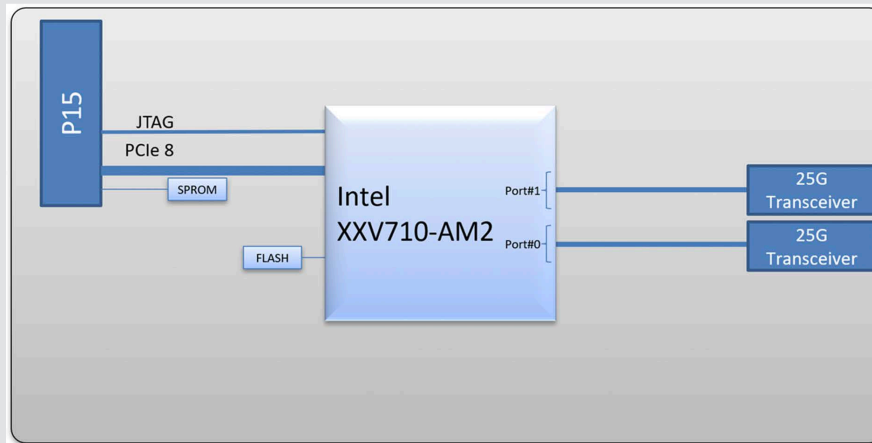
#### APPLICATIONS

- 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

# TECHNICAL SPECIFICATION



## Ethernet Controller

- Intel FTXXV710-AM2

## Interfaces

- 2x channels
- 25GBASE-SR
- 25GBASE-LR on request
- 10GBASE-SR
- 10GBASE-LR on request
- 850nm MM transceiver
- Front panel duplex optical modules with LC connectors
- Optional recessed modules for easy internal optical cabling in conduction-cooled systems without front panel connections

## Ethernet Capabilities

- UDP, TCP, SCTP, and IP checksum offload
- Up to 256 maximum VMDq VMs supported
- 1536 Tx and Rx queues per device
- Time Sync, PTP (IEEE 1588, 802.1as) support

## Host Interface (XMC)

- PCIe v3.0, x8 (8GT/s)

## Operating Temperature

- -40°C to +75°C rugged air cooled
- -40°C to +85°C rugged conduction cooled
- Conformal coating on all models

## Humidity

- Up to 100%, condensing

## Software

- Linux and Windows drivers

## ABOUT GALLEON

Galleon Embedded Computing is an innovative leader in development of high-performance, high-quality storage solutions and small rugged data recorder systems, servers and NAS devices.

Galleon's offerings span from commercial grade products for benign environments to ruggedized conduction-cooled products for deployed systems in severe environments.

## RELATED PRODUCTS

- Titan Quad GbE XMC
- Titan Quad 10GbE XMC
- Titan 40GbE XMC
- Titan sFPDP XMC



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