

# QUAD XEON RUGGED SERVER

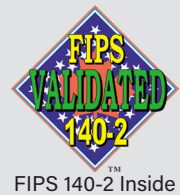
## ATR – High Performance

The Galleon Quad Xeon is a high-performance server for deployed applications, utilizing up to 16 XEON E3 processing cores.

- 4x Intel® XEON E3 or Core™-i7 CPU nodes, each with up to 32GB DDR4 SDRAM with ECC (128GB total)
- Dual XMC site for IO expansion
- Optional dual or quad 10 Gigabit Ethernet Controller
- Optional quad 25GbE or dual 40GbE ports
- Up to 80TB solid-state storage in field exchangeable modules
- Optional certified FIPS 140-2 256-bit hardware encryption (AES-256)
- Rugged conduction cooled and ATR tray mounting options.

The Galleon Quad Xeon XSR Rugged Server is designed to meet the most demanding processing requirements in today's C4ISR applications. Its high performance allows server virtualization and distributed processing of radar-, SIGINT and video data. Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100 and ISO 9001.

### POWERFUL COMPUTING AND STORAGE



#### KEY FEATURES

- Quad Xeon processing nodes
- 4x 32GB DDR4 ECC SDRAM
- ATR from factor
- Internal 8-port Gigabit Ethernet switch
- 8x Gigabit Ethernet ports (1000Base-T)
- 8x additional Gigabit Ethernet ports (optional)
- 8x 10 Gigabit Ethernet (optical, optional)
- 8x sFPDP channels (optical, optional)
- 4x 25GbE or 2x 40GbE (optical, optional)
- Up to 80TB removable solid-state storage
- On-board GPS for high-resolution time server
- Dual XMC Sites for flexible I/O expansion. Supports, 10 Gigabit Ethernet, 25GbE, 40GbE, Serial FPDP, HD Video, 1553, AIRNC 429, etc.
- Wide input 16-48V DC power
- Tested to:
  - MIL-STD-810
  - MIL-STD-461
  - MIL-STD-704

# TECHNICAL SPECIFICATION



## Processor

- 4x Intel® XEON E3 or Core™-i7 Quad Core
- 4x 32GB DDR4 SDRAM with ECC

## Network

- 8x Gigabit Ethernet
- 8x additional Gigabit Ethernet (optional)
- Built in 8-port Gigabit Ethernet switch
- 8x 10 Gigabit Ethernet (optional)
- 4x 25Gigabit Ethernet (optional)
- 2x 40Gigabit Ethernet (optional)

## Other Rear Panel Interfaces

- 4x VGA
- 8x USB 2.0
- 1x Power
- 1x GPS antenna (optional)

## Storage

- 4x SLC FLASH system disk (up to 256GB)
- AES 256-bit Encryption (optional)
- Removable storage unit
  - Up to 40TB removable SLC FLASH
  - Up to 80TB removable MLC FLASH

## I/O Expansion

- Dual XMC with x8/x4 PCIe interface

## Data Security

- HWFDE using XTS-AES 256bit (option)
  - Certified FIPS 140-2 encryption inside (AES-256)
- SWFDE using XTS-AES 256bit (option)
- Write protected memory (option)

## Operating Temperature

- 0°C to +50°C standard temperature
- -20°C to +65°C extended temperature
- -40°C to +71/75°C extended temperature (AC/CC)

## Shock and Vibration

- Tested to MIL-STD-810

## Altitude

- -1500 to 27 000 ft (AC)\*
- -1500 to 60 000 ft (CC)\*

## EMI/RFI

- Tested to MIL-STD-461F

## Humidity

- Up to 100%, Condensing

## Size, Weight & Power

- 254.5 x 350 x 203.5 mm\*\*
- Weight: 9kg (configuration dependent)
- Power (idle): 50-100W (depending on CPU option)
- Power (max load): 250W

## Power Supply

- 16-40V DC wide input
- Tested to MIL-STD-704

\*Contact factory for high altitude options

\*\*Without connectors and storage bay door

## 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

- Offload Systems
- XSR-RDM Data Cartridges
- Titan 40Gb Ethernet XMC
- Titan 25Gb Ethernet XMC
- Titan 10Gb Ethernet XMC
- Titan 1Gb Ethernet XMC
- Galleon Extended Warranty and Support



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