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
- Up to 80TB solid-state storage in field exchangeable modules
- Optional AES 256-bit encryption
- 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 9100:2016 and ISO 9001:2015.

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)
- 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,

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

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)
- 8x 10 Gigabit Ethernet (optional)
- Built in 8-port Gigabit Ethernet switch

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

Rear Panel Interfaces
- 8x 1000Base-T Gigabit Ethernet
- 8x 1000Base-T Gigabit Ethernet (optional)
- 8x 10 Gigabit Ethernet (optional, optical)
- 4x VGA
- 8x USB 2.0
- 1x Power
- 1x GPS antenna (optional)

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 10GbE XMC
- Titan GbE XMC
- Galleon Extended Warranty and Support

galleon
embedded computing

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