GALLEON XSR MISSION COMPUTER

Small – High Performance

The XSR Mission Computer is a very compact, high-performance platform for your processing application.

Key features include:

- Small: external dimensions are only 156 x 175 x 103mm
- Latest generation Intel® Core™ i7 processor options (ranging from Ultra Low Power to high-performance Xeon E, Quad Core CPUs)
- 13x Intel® Gigabit Ethernet Controllers
- XMC/PMC expansion site
- Flexible I/O options

The XSR–MC is designed to meet the most severe environmental conditions without compromising on functionality and performance. The Size, Weight and Power (SWaP) optimized design of the Mission Computer makes it ideal for use in small unmanned aerial and ground vehicles (UAVs, UGVs), surveillance, HD video applications, sensor development and testing, etc.

Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100:2016 and ISO 9001:2015.

Unlimited Possibilities in Very Compact Design

KEY FEATURES

- Small: 156 x 175 x 103mm
- Powerful latest generation Intel® Core™ i7 or Xeon E CPU
- Up to 32GB DDR3 SDRAM
- XMC/PMC site for flexible I/O expansion (analog, sFPDP, 1553, HD video, custom)
- Five Intel® Gigabit Ethernet Controllers
- Integrated GPS
- Internal Mini PCI Express expansion
- Wide input 16–40V DC power
- Rugged air- and conduction cooled design
- MIL-STD-810
- MIL-STD-461

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Reconnaissance
- DSP applications
- In-flight entertainment
- Industrial applications
- Mass transportation

BENEFITS

- SWaP
- High computing performance
- Flexible and scalable
- Rugged design

TECHNICAL SPECIFICATION

Processor & Memory
- Latest generation Intel® Core™ i7
- Up to 32GB DDR3 SDRAM

Front Panel Connections
- 13x Gigabit Ethernet
- 3x USB 2.0
- 2x USB 3.0
- RS-232, RS-422, GPIO
- 1x VGA
- 1x HDMI
- 1x Power (16–40V DC)
- 1x GPS antenna

Storage
- Up to 80TB removable solid–state disks
- Independent 32-256GB SSD system disk

Operating System
- Linux or Windows

GPS
- NMEA position and timing data
- 1PPS sync pulse
- RF interface to external antenna

Expansion
- 1x x8 PCI Express 2.0 XMC site
- 3x Mini PCI Express expansion sites
- 8x 10Gigabit Ethernet
- 8x sFPDP channels

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 40 000 ft (AC)*
- -1500 to 60 000 ft (CC)*

EMI/RFI
- Tested to MIL-STD-461

Humidity
- Up to 100%, condensing

Size, Weight & Power
- CC: 156 x 175 x 103mm (6.1 x 6.9 x 4.1")**
- AC: 253 x 175 x 149mm (10 x 6.9 x 5.9")**
- Weight: from 2.75kg (min. configuration)
- Power, idle: 23W
- Power, max load: up to 85W

Power Supply
- 16-40V DC Wide Input

*Contact factory for high altitude options

**Without connections and storage bay lid

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

- XSR RDM
- XSR Docking Station
- XSR HD Video Recorder

galleon embedded computing

Galleon Embedded Computing

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