Galleon Mission Computer Ultra Small - High Performance

KEY FEATURES

- Ultra small: 150 x 170 x 100 mm
- Powerful Intel® Core™ -i7 or Core™ 2 Duo CPU
- Up to 16GB DDR3 SDRAM
- XMC/PMC Sites for flexible I/O Expansion (analog, sFPDP, 1553, HD video, custom)
- 5x Intel® Gigabit Ethernet Controllers
- Internal MiniPCI Express Expansion for WLAN, Storage, etc
- Onboard GPS
- Power: Wide Input 9-36V DC (36-75V DC optional)
- Rugged Air– and Conduction Cooled Design
- MIL-STD-810

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Reconnaissance
- DSP Applications
- In-flight Entertainment
- Industrial Applications
- Mass Transportation

BENEFITS

- Optimized for Size, Weight and Power (SWaP)
- High Computing Performance
- Flexible and Scalable
- Rugged design

Unlimited Possibilities in Very Compact Design

The XSR Mission Computer is a very compact, high performance platform for your processing application. Key features include:

- Ultra small: External dimensions only 150 x 170 x 100mm
- Intel® Core™-i7 and Core™ 2 processor options
- 5x Intel® Gigabit Ethernet Controllers
- Dual XMC/PMC expansion sites
- Flexible I/O Options

The XSR-MC is designed to meet the most severe environmental conditions without compromising on functionality and performance. Its SWaP optimized design makes it ideal for use in small Unmanned Aerial and Ground Vehicles, Surveillance, High Definition Video Applications, Sensor Development and Testing, etc. Its flexible design allows for high level of custom integration and application optimization.

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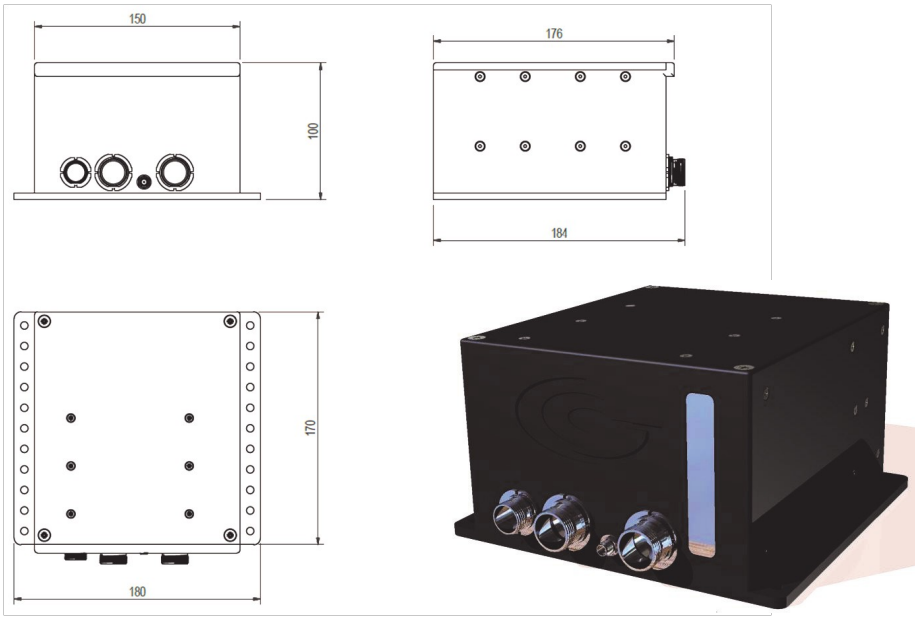

XSR-MC In a Nutshell

The XSR-MC family of rugged Mission Computers represents a breakthrough in ultra small, high performance data processing. With its flexible architecture and only 150 x 170 x 100 mm external dimensions it is unmatched in the industry.

The XSR-MC is extremely flexible and expandable. It supports two XMC/PMC sites with x8 PCI Express 2.0 and/or 133MHz 64-bit PCI-X interfaces.

For further expansion, an internal MiniPCI Express site allows easy integration of for example WLAN or additional SATA storage.

The onboard GPS unit provides accurate timing and/or position data.

Up to five Gigabit Ethernet connections are available on Glenair MightyMouse connectors in the front panel, along with USB 2.0, RS-232/422/485 and VGA.

The XSR-MC is ideal in space constrained applications where high performance data processing is required.

Technical Specification

Processor & Memory
- Intel® Core™ i7 610E, 620LE, 620UE and Intel® Core™ 2 Duo Supported
- Up to 4GB 800/1066MHz DDR3 SDRAM

Front Panel Connections
- 5x Gigabit Ethernet
- 3x USB 2.0
- RS232, RS422, GPIO
- 1x VGA
- 1x Power (12, 24 or 48V DC)
- 1x GPS Antenna

Network
- 4x Intel® 82574 Gigabit Ethernet Controllers
- 1x Intel® 82577 Gigabit Ethernet Controller

Storage
- Up to 4x 2.5" Solid State Disks in Removable Unit supporting 9.5mm disks
- Independent 8- 400GB SSD System Disk

GPS
- NMEA Position and Timing Data
- 10MHz Reference Clock
- 1pps Sync Pulse
- RF Interface to External Antenna

Expansion
- One x8 PCI Express 2.0 XMC Site
- One x4 PCI Express 2.0 or 133MHz 64-bit PCI-X XMC/PMC Site
- One MiniPCI Express Expansion Site (supporting x1 PCI Express and USB 2.0)

Operating System
- Linux or Windows

Operating Temperature
- 0°C to +50°C Standard temperature (AC/CC)
- -40°C to +85°C Extended temperature (CC)
- -55°C to +85°C Storage temperature
-

Shock & Vibration
- MIL-STD-810 Compliant

Altitude
- Altitude: -1500 to 40 000* ft

EMI/RFI
- MIL-STD-461F compliant

Humidity
- Up to 95%

Size, Weight & Power
- Size: 150 x 170 x 100mm (5.9 x 6.7 x 3.9") (CC base unit not including mounting plate and connectors)
- Weight: 2.75kg (minimum configuration)
- Power (idle): 23W
- Power (max load): 43W

Power Supply
- 12/24/28V DC (9-36V DC Wide Input)
- 48V DC (36-75V DC Wide Input)

* Contact factory for high altitude options.

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