

GALLEON G1 MICROSERVER



HIGH PERFORMANCE SOLUTION WITH REMOVABLE STORAGE

The Galleon G1 microServer is a compact, full-featured server optimized for Size, Weight, Power, and Cost (SWaP-C). Its design caters to space and power-constrained applications such as small unmanned aerial and ground systems. Equipped with four gigabit Ethernet ports, optional 10Gb Ethernet, it's perfect for network attached storage applications. The high number of Ethernet ports often removes the need for external switches.

The microServer offers up to 40TB of Industrial grade MLC storage, or 20TB Military grade SLC storage. It supports RAID modes 0 and 1, and its removable data module facilitates easy data transport. The server can run on Debian, RedHat Enterprise Linux, or Windows 10 and Windows Server, making it versatile. Optional FIPS 140-2 and AES-256 hardware encryption provide robust data security with flexible key management options. Ideal for surveillance, reconnaissance, and intelligence applications, this server promises high performance in demanding environments. Galleon Embedded Computing is certified to Aerospace Standard AS/EN 9100 and ISO 9001.



KEY FEATURES

- Intel® microServer-C2758 high-performance octal core CPU
- 8GB SDRAM with ECC
- Quad Gigabit Ethernet
- 1x 10GbE (10GBase-T) port
- Up to 40TB removable solid-state storage
- 16-50V DC power
- MIL-STD-810, MIL-STD-461, MIL-STD-704

APPLICATIONS

- Mission data server
- Application server
- NAS
- Ethernet data recorder
- Data loader

BENEFITS

- Ultra lightweight
- SWaP-C Optimized
- High performance
- High bandwidth
- Low power

INNOVATION AT A SUPERSONIC PACE

Galleon Embedded Computing is a globally positioned world-class leader in developing high-performance, high-quality storage solutions and small, rugged data recorder systems, servers, and network-attached storage (NAS) devices.

With locations in North America and Europe, Galleon's competitive advantage is empowered by its global reach, extensive network of relationships, and uncompromised product quality.

Galleon's rugged computing solutions can be found in a wide array of global applications, ranging from the depths of our oceans to the harsh vacuum of space, and everywhere in between.

**NIAP-APPROVED DUAL-LAYER SOFTWARE FULL DISK ENCRYPTION (SWFDE)
& HARDWARE FULL DISK ENCRYPTION (HWFDE)**

TECHNICAL SPECIFICATIONS



NIAP-APPROVED DUAL-LAYER SOFTWARE FULL DISK ENCRYPTION (SWFDE) & HARDWARE FULL DISK ENCRYPTION (HWFDE)

Processor

- Intel® C2758 Octal Core CPU, 2.4GHz
- 8GB SDRAM with ECC*

Network

- 4x Gigabit Ethernet Controllers

Storage

- Up to 40TB removable MLC SSD
- Up to 20TB removable SLC SSD
- Up to 256GB SLC FLASH
- Optional certified FIPS 140-2 hardware encryption (AES-256)
- Optional AES 256-bit encryption

Rear Panel Interfaces

- 4x 1000BASE-T
- 1x 10GBASE-T (option)
- 2x USB 2.0
- 2x RS232
- 2x VGA
- 1x DC Power

I/O Expansion

- MiniPCI Express expansion site

Operating Temperature

- 0°C to +50°C standard temperature
- -40°C to +75°C extended temperature

Shock and Vibration

- Tested to MIL-STD-810

Altitude

- -1500 to 60 000 ft**

EMI/RFI

- Tested to MIL-STD-461

Humidity

- Up to 100%, condensing

Size, Weight & Power

- Ultra-Small Form Factor: 83 x 63 x 185 mm
- Conduction cooled and natural convection cooled
- Weight: < 1.5 kg (min. configuration)
- Power: 20W-35W (configuration dependent)

Power Supply

- 16V to 50V DC (nominal)
- MIL-STD-704

* Contact factory for other memory options (MOQ conditions apply)

** Contact factory for high altitude options

ABOUT

Galleon Embedded Computing is an innovative leader in the development of extremely rugged, secure storage solutions, data recorder systems, servers, network-attached storage devices & processing systems intended for deployment in the harshest environmental conditions.



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