Galleon G1 microServer

Removable Storage — High Performance

The Galleon G1 microServer is a full featured server in an extremely small enclosure. The Size, Weight, Power and Cost (SWaP-C) optimized design makes it ideal for use in small unmanned aerial and ground systems as well as other space and power constrained applications. Four Gigabit Ethernet ports makes the unit ideal for network-attached storage (NAS) applications. In many cases, the high number of Ethernet ports eliminates the need for external switches.

The removable storage subsystem offers up to 40TB of Industrial grade MLC storage or up to 20TB Military grade SLC storage, supporting JBOD and RAID modes 0 and 1. The removable data cartridge allows easy transport of data between the vehicle or aircraft and the command station or lab where the data is used. Passive docking stations allows easy data exchange between the deployed servers and the ground infrastructure such as mission planning and debriefing systems.

The microServer can be configured with Debian or RedHat Enterprise Linux, or Windows 10 and Windows Server. Combined with Galleon's high-performance data recorder software, the unit can be configured as a video over Ethernet or general UDP data recorder capable of streaming up to 500Mbytes/s to solid-state storage.

The microServer is ideal for surveillance, reconnaissance, intelligence and flight test applications where huge amounts of data must be collected and stored during potentially very long missions. The removable cartridge with optional AES 256-bit encryption makes data management and transport an easy and risk free task.

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

A REAL SERVER Weighing Less Than 1.5kg!

KEY FEATURES

- Intel® microServer-C2758 high-performance octal core CPU
- 8GB DDR3 SDRAM with ECC
- Quad Gigabit Ethernet
- Up to 40TB removable solid-state storage
- 12-48V DC power
- Rugged conduction or air cooled designs
- Tested to:
  - 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
- High performance
- High bandwidth
- Low power

TECHNICAL SPECIFICATION

Processor
- Intel® C2758 Octal Core CPU, 2.4GHz
- GB DDR3 SDRAM with ECC*

Network
- 4x Gigabit Ethernet Controllers

Storage
- Removable storage unit
  - Up to 40TB removable MLC FLASH
  - Up to 20TB removable SLC FLASH
- Non-removable system disk (OS)
  - Up to 256GB SLC FLASH

Rear Panel Interfaces
- 4x 1000BASE-T Gigabit Ethernet
- 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 +71/75°C extended temperature (AC/CC)

Shock and Vibration
- Tested to MIL-STD-810

Altitude
- -1500 to 40 000 ft**

EMI/RFI
- Tested to MIL-STD-461

Humidity
- Up to 100%, condensing

Size, Weight & Power
- Ultra-Small Form Factor (W x H x L):
  - 83 x 63 x 185mm (3.2 x 2.5 x 7.3")
- Conduction cooled and natural convection cooled
- Weight: <1.5kg (min. configuration)
- Power: 10W-35W (configuration dependent)

Power Supply
- 12V to 48V DC (nominal)
- MIL-STD-704

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

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

- G1 RDM
- G1 Docking Station
- G1 Offload Server
- CP50 Control Panel

galleon embedded computing

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