

# GROUND VEHICLE COMPUTER

## Highly versatile computer for ground vehicle applications

The Ground Vehicle Computer (GVC) is a compact, high-performance computing platform designed to execute your complex ground vehicle processing needs.

Building on Galleon's long experience with military computer design, the GVC was developed specifically for military ground vehicle applications and meets the rugged computing requirements for the most severe environmental conditions without compromising on performance, functionality, or reliability. The GVC's removable storage, equipped with multi-layer encryption, ensures a fast and secure offload of data.

Equipped with high-performance graphics, multiple gigabit Ethernet ports, CANbus, USB 2.0 and 3.0, Serial Comms, GPIO and audio, the GVC is an ideal computing solution for integration with state-of-the-art network-centric Battle Management Systems, Situational Awareness vehicle self-protection systems, and Vetronics applications.

Galleon's small form factor GVC benefits from passive air cooling, eliminating the challenges presented by conduction cooling and forced-airflow cooling techniques.

Compatible with the latest military vehicle standards such as VICTORY and GVA, the fanless GVC is maintenance-free and offers reliable computing power at remarkably low lifecycle costs.

The flexible architecture allows several Intel Xeon-E processor options ranging from the low power E3-1505Lv6 quad-core to the high-performance E-2276ME six-core CPU.

At Galleon Embedded Computing we are proud to test our products to the full extent of MIL-STD-810 & MIL-STD-461.

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

### PASSIVE AIR-COOLED COMPUTER WITH REMOVABLE STORAGE



#### KEY FEATURES

- Rugged Passive Air-Cooled Design
- Powerful Latest Generation Intel® CPU
- Up to 96GB SDRAM with ECC
- Wide Input 12-60V DC Power MIL-STD-1275
- MIL-STD-810, MIL-STD-461 Qualified
- Optional AES-256 encryption
- IP69K

#### APPLICATIONS

- Military Ground Vehicles
- Naval Systems
- Combat Management Systems
- C4ISR Systems
- Industrial Applications
- Mass Transportation
- Vetronics

#### BENEFITS

- SWaP
- Removable Storage Module
- Secure Data Storage
- High Computing Performance
- Flexible and Scalable
- Rugged Design

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## TECHNICAL SPECIFICATION



### Processor & Memory

- Latest generation Intel Xeon-E CPU
- Up to 96GB SDRAM with ECC

### Front Panel Connections

- 7x Gigabit Ethernet
- 2x USB 3.0, 6x USB 2.0
- RS-232, RS-422, GPIO, Audio In/Out
- 2x DVI-D, 1x VGA
- 3x CAN Bus interface
- 1x Power
- IO Expansion capability
- LED

### Storage

- Up to 40TB removable solid-state storage

### Data Security

- AES 256bit (option)
- Certified FIPS 140-2 encryption inside

### Operating System

- Linux or Windows

### Operating Temperature

- 0°C to +50°C standard temperature
- -46°C to +71°C extended temperature

### Shock and Vibration

- MIL-STD-810

### Sand and Dust

- MIL-STD-810

### Fungus

- MIL-STD-810

### Water Proofing

- IP69K

### EMI/RFI

- MIL-STD-461

### Humidity

- Up to 100%, condensing

### Size, Weight & Power

- Size: 300 x 220 x 100 mm
- Weight: approx. 5.8 kg (min. config.)
- Power, idle: 25 W (TBD)

### Power Supply

- 12-60V DC wide input
- MIL-STD-1275

### Battery

- Accessible battery slot for ease of maintenance

### 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 Tactical Secure Server
- RDM for GVC
- G1 microNAS
- XSR NAS



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