



G1 MICROSERVER

HIGH PERFORMANCE SOLUTION WITH
REMOVABLE HIGH CAPACITY STORAGE

G1 microServer

Rugged Server – Removable Storage – High Performance

The 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 4 gigabit Ethernet ports and 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 highly versatile server can run on Debian, RedHat Enterprise Linux or Windows OS. Ideal for surveillance, reconnaissance, and intelligence applications, this server promises high performance in demanding environments.



KEY FEATURES

- Intel® microServer-C2758 high-performance octal core CPU, 2.4GHz
- 8 GB 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

BENEFITS

- Ultra Lightweight
- SWaP-C Optimized
- High Performance
- High Bandwidth
- Low Power

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

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Flight management
- Map systems
- Cockpit information systems

BENEFITS

- SWaP optimized
- High performance
- Flexible and scalable
- Ruggedized conduction cooled and convection-cooled designs

QUALIFICATIONS & SPECIFICATIONS

| | | |
|------------------------------|--|---|
| Processor | <ul style="list-style-type: none"> ■ Intel® C2758 Octal Core CPU, 2.4GHz ■ 8 GB SDRAM with ECC* | * Contact factory for other memory options (MOQ conditions apply) |
| Network | <ul style="list-style-type: none"> ■ 4x Gigabit Ethernet Ports ■ 1x 10G Ethernet port | |
| Storage | <ul style="list-style-type: none"> ■ Up to 40 TB removable MLC SSD ■ Up to 20 TB removable SLC SSD ■ Up to 256 GB SLC FLASH | |
| I/O Expansion | <ul style="list-style-type: none"> ■ MiniPCI Express expansion site | |
| Rear Panel Interfaces | <ul style="list-style-type: none"> ■ 4x 1000BASE-T ■ 1x 10GBASE-T (option) ■ 2x USB 2.0 ■ 2x RS232 ■ 2x VGA ■ 1x DC Power | |
| Operating Temperature | <ul style="list-style-type: none"> ■ 0°C to +50°C standard temperature ■ -40°C to +75°C extended temperature | |
| Shock & Vibration | <ul style="list-style-type: none"> ■ Tested to MIL-STD-810 | |
| Altitude | <ul style="list-style-type: none"> ■ -1500 to 60 000 ft** | ** Contact factory for high altitude options |
| EMI/RFI | <ul style="list-style-type: none"> ■ Tested to MIL-STD-461 | |
| Humidity | <ul style="list-style-type: none"> ■ Up to 100%, condensing | |
| Size & Weight | <ul style="list-style-type: none"> ■ Ultra-Small Form Factor: 3.2 x 2.5 x 7.2" (83 x 63 x 185 mm) ■ Conduction cooled and natural convection cooled ■ Weight: 3.3 lbs/1.5 kg (min. configuration) ■ Power: 20W-35W (configuration dependent) | |
| Power Supply | <ul style="list-style-type: none"> ■ 16V to 50V DC (nominal) ■ MIL-STD-704 | |



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Length: 3.2 inches (83 mm) | Width: 2.5 inches (63 mm) | Height: 7.2 inches (185 mm)



Spectra Defense Technologies is a global provider of leading C5ISR solutions for aerospace and defense customers. With over 35 years of proven performance and differentiated expertise, we deliver fully integrated mission systems, data recorders, secure networking, edge computing, robust data-at-rest encryption and advanced visualization that capture, process, and display mission-critical data across air, land, sea, and space.

Backed by engineering, sales, and production teams in North America and Europe, Spectra combines global reach with agile innovation to meet evolving end-user needs with speed and precision. Guided by a culture of innovation and deep customer partnership, we build enduring trust through open-architecture designs, technical excellence, and resilient systems designed to meet today's mission needs and anticipate tomorrow's demands for the U.S. DoW, NATO, European defense organizations, and allied partners worldwide.

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