



## Demanding Environments

### Require Rugged Computing Solutions

Maximize space and minimize power consumption with this SWaP-optimized General Purpose Server. Its compact 1U form factor and short depth design are ideal for constrained environments, while dual redundant power supplies ensure maximum uptime.

Despite its small footprint, this server doesn't compromise on performance, featuring a removable NVMe drive for rapid data access and processing. Accelerate your deployment with customizable options tailored to your specific needs, enabling a quick time to market."

### Features and Benefit

- **Compact Form Factor** – Maximizes valuable space while still providing the power you need.
- **Removable Drives** – Enable efficient data retrieval and processing.
- **Redundant Power Supply** – Achieve maximum uptime with 500W redundant power supply.
- **Tested and Rated for Demanding Environments** – Ruggedized design handles harsh environments.
- **Ample I/O** – Peripheral connections that are robust and accessible



## General Specifications & Features

### KEY FEATURES

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| Motherboard            | 14th Gen Intel Core i7 processor<br>20 cores 5.4Ghz Boost clock CPU |
| RAM                    | Up to 64 GB DDR5-5600 S0-DIMM RAM                                   |
| Hard Drive             | (2) Removable 1TB NVMe SSDs in a RAID 1                             |
| Power Supply           | 500W Redundant Power Supply                                         |
| Ethernet               | (2) Intel 2.5 Gigabit LAN                                           |
| No. of Displays        | Quad Displays Supported<br>(1) HDMI 2.0b   (2) DP1.4a   (1) VGA     |
| Ports                  | Rear Panel: (4) USB 3.2 (Gen2)<br>Front Panel: (2) USB 3.2 (Gen1)   |
| RS-232/422/ 485 (DB-9) | (2) DB-9 (RS-232/422/485)                                           |
| Audio                  | (1) 3.5mm Mic-in<br>(1) 3.5mm Line-out                              |
| Recordable Media       | Internal SATA III Blu-ray Writer                                    |
| High-Speed Interface   | (1) PCIe x16 Slot (Gen4)                                            |
| Rack Units             | 1U Custom Rack Mount Chassis                                        |
| Transport              | Designed for truck transport                                        |
| Life Cycle Design      | Available until 2028-2030                                           |

### ACCESSORIES

|            |                |
|------------|----------------|
| Rails      | 20" Rack Rails |
| Power Cord | 10'            |

### ENVIRONMENTAL TESTING

|                       |                                    |
|-----------------------|------------------------------------|
| Environmental Testing | Supports MIL-STD-810G environments |
| Operating Temperature | +0°C to +50°C                      |
| Storage Temperature   | -40 °C to +70°C                    |
| Chemical Treatment    | MIL-DLT-5541 Class 3               |

### HARDWARE SPECIFICATIONS

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Case Dimensions    | Height: 1U custom per EIA/ECA-310<br>Depth: 15"                                    |
| Case Material      | 0.047" Steel                                                                       |
| Front Panel        | 0.25" Thick Front Panel: 19.0" ISO Rack<br>Wrinkle Black Powder Coat   Text: White |
| Chemical Treatment | MIL-DLT-5541 Class 3                                                               |
| Cooling            | Active air-cooling package                                                         |

### OTHER FEATURES

|                |                                                                                                                                        |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Switches       | Vandal-Resistant, Momentary, Illuminated Power (Green),<br>Reset (Red) Switches                                                        |
| Air Filtration | Two front mounted custom removable sand filters                                                                                        |
| Drive Bays     | Hot Swap SATA Drive Bays:<br><i>Front panel accessible drive bays with removable media for rapid<br/>downgrade procedure execution</i> |
|                | Two Front Panel Accessible USB Ports                                                                                                   |



Scan here to learn more  
about the **Ruggedized  
GPPC Server** ▶

## Rear Panel



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