



PSC-18

**DUAL DISPLAY - 18.5" PORTABLE
GPU SERVER**



- **Dual 18.5" FULL HD 1920 X 1080 Portable GPU Server**
- **Optional for UFD 3840 X 2160**
- **MIL-STD-810 Thermal, shock, vibration, Humidity / EMI / EMC Resistance**
- **Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors**
- **Nvidia Quadro RTXA4000 GPU (6,144 CUDA)**
- **3x PCIe Expansion Slots**
- **Redundant AC 100~240V Input**
- **MIL-STD-461 18V~36V DC-Input (optional)**
- **Extreme Temperature: -20°C to +55°C**



LAND



SEA



AIR



INTRODUCTION

Engineered for mission-critical operations, this 18.5" dual-display tactical system delivers powerful computing and superior situational awareness in harsh environments. Powered by Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors with up to 8 DDR5 RDIMM/MRDIMM slots, it ensures high-performance data processing for real-time decision-making. Integrated with NVIDIA RTX A4000 GPU (6,144 CUDA cores), the platform enables advanced AI inference, video analytics, and multi-source data visualization.

The IP65-rated dual 1000-nit sunlight-readable multi-touch displays provide clear visibility in extreme outdoor conditions, enhancing operational efficiency. Designed for rugged deployments, it complies with MIL-STD-810 standards for shock, vibration, and temperature, and supports extended operating ranges from -20°C to +55°C. With redundant AC 100–240V power input, the system ensures reliable and continuous operation in demanding tactical scenarios.

SPECIFICATIONS

SYSTEM

CPU	Intel® Xeon® 6700P-series, 6500P-series, and 6700E-series processors, LGA 4710, CPU TDP supports up to 350W
Memory	8 x DDR5 6400MHz RDIMM up to 1TB
GPU	Nvidia RTXA4000, NVIDIA Ampere GPU architecture 6,144 NVIDIA® CUDA® Cores, 192 NVIDIA® Tensor Cores 16GB GDDR6 Memory with ECC, Up to 448 GB/s Memory Bandwidth Max. Power Consumption: 140 W

DISPLAY

Display	Dual 18.5" TFT LCD FHD (1920 x 1080), 1,000 Nits Brightness Display Sunlight readable, P-capacitive multi-touch screen
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STORAGE

Storage	4 x Swappable 2.5" SATAIII SSD
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ETHERNET

Ethernet	Intel® E610-XAT2
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FRONT I/O

Front I/O	2 x USB3.2 1 x Power Button w / Indicator LED 10 x OSD Buttons
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RIGHT I/O

Left I/O	1 x IPMI LAN
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2 x 10GbE RJ45 LAN
2 x USB3.2
1 x VGA
2 x Swappable SSD Tray
3 x PCIe expansion slot

LEFT I/O

Left I/O 2 x AC Power Plug

KEYBOARD

Keyboard 86-key with backlight / Touchpad

OPERATING SYSTEM

OS Support Windows® Server 2022 64bit
Windows® Server 2025 64bit
Linux by request

PHYSICAL

Dimension(W x D x H) TBD
Weight 13KG
Chassis SECC
Heatsink Heatsink Aluminum Alloy with Fan

ENVIRONMENT

Operating Temp. -20°C to +50°C
Storage Temp. -40°C to +85°C

POWER

Power 1300W AC100~240V 1+1 Redundant

MIL-STD-810 ENVIRONMENT TESTING STANDARDS

Method 501, Operational Temperature, high Procedure II: +50°C, two-hour dwell, four cycles

Method 501, Storage Temperature, high Procedure I: +75°C, two-hour dwell, four cycles

Method 502, Operational Temperature, low Procedure II: -20°C, two-hour dwell, four cycles

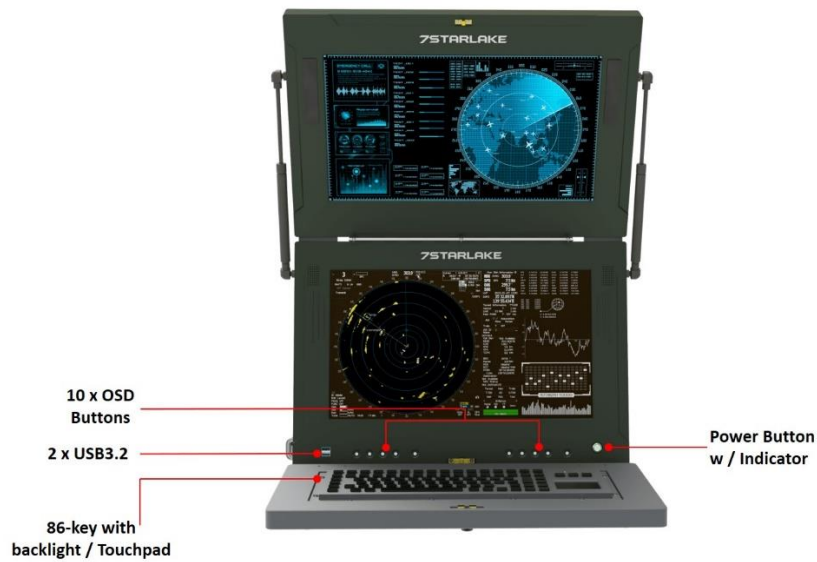
Method 502, Storage Temperature, low Procedure I: -40°C, two-hour dwell, four cycles

Method 514, Vibration Category 24/Non-Operating (Category 20 & 24, Vibration)

Method 514, Vibration Category 20/Operating (Category 20 & 24, Vibration)

Method 516, Shock Procedure V Non-Operating (Mechanical Shock)

Method 516, Shock	Procedure I Operating (Mechanical Shock)
Method 507, Humidity	Procedure II: exposure to 10 cycles of 95% relative humidity at temperatures of 30 °C to 60 °C with conformal coating (optional)
Method 500, Altitude (Low Pressure)	15,000 feet transport, -200÷2500[m] ground operation and exposed to +55°C and -20°C operation (optional)
Method 510, Sand-Dust	Procedure I: Blasting dust, 12 hours (optional)



ORDER INFORMATION

PS2-18

Rugged Dual 18.5" Portable GPU Server: Featuring high-brightness sunlight-readable displays , powered by Intel® Xeon® processors and NVIDIA RTX A4000 GPU. Equipped with a 1300W AC 1+1 redundant power supply and engineered for mission-critical operations across an extreme operational temperature range from -20°C to +50°C.

This datasheet is for marketing purposes only and does not constitute a warranty. All specifications, dimensions, and data are subject to change without notice. For the latest specifications and updates, please contact your 7STARLAKE representatives.