



P52

Dual Display Portable GPU Server



MIL-STD
461/1275

MIL-STD
810

- Dual 23.8" TFT-LCD Portable GPU Server
- MIL-STD810 Thermal, shock, vibration, Humidity / EMI / EMC Resistance
- Intel® Ice Lake 3rd Gen. Xeon® Scalable CPU
- NVIDIA® Quadro RTXA4000 GPU (6,144 CUDA)
- Redundant AC 100~240V Input
- MIL-STD -461 18V~36V DC-Input (optional)
- Extreme Temperature : -20 ~+55 degree



LAND



SEA



AIR



Specifications

SYSTEM

DISPLAY	DUAL 23.8" TFT-LCD , LCM, FULL HD 1920X1080- 250 NITS (Brightness : up to 1000nits for option)
CPU	Intel® Xeon® Scalable Processor, Single Socket LGA-3647 (Socket P) supported, - Xeon® Silver 4210 Processor,(10 cores, 13.75M Cache, 2.20 GHz),TDP 85W - Xeon® Silver 4216 Processor,(16 cores, 22M Cache, 2.10 GHz) ,TDP 100W
Memory type	6 DIMM slots Up to 1.5TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 1.5TB 3DS ECC RDIMM,
DIMM Sizes	LRDIMM: 32GB, 64GB, 128GB RDIMM: 8GB, 16GB, 32GB, 64GB
Chipset	Intel® C621
Graphics	ASPEED AST2500 BMC
GPU (option)	- NVIDIA® RTX A4000 Ampere GPU architecture 6,144 CUDA® Cores, 16GB GDDR6 Memory with ECC Max. Power Consumption: 140W - NVIDIA® RTX A2000 Ampere GPU architecture 3,328 CUDA® Cores, 6GB /12GB GDDR6 Memory with ECC Max. Power Consumption: 70W
Expansion Slot (PCI-E)	2 PCI-E 3.0 x16, 1 PCI-E 3.0 x8
Expansion Slot (M.2)	M.2 Interface: PCI-E 3.0 x4 Form Factor: 2280, 2242 Key: M-Key
BIOS	AMI UEFI, ACPI 6.0 RTC (Real Time Clock) Wakeup

STORAGE

SATA	2 x SATA3 SSD (6Gbps) port(s) (Max 12 SATA3)
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ETHERNET

Ethernet (Internal)	Dual LAN ,with 1GbE with Intel® X722 + Marvell 88E1512
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I/O

X1	1 x VGA , with D38999 connector
X2	2 x Giga LAN , with D38999 connector
X3	2 x COM , with D38999 connector
X4	2 x USB2.0 , with D38999 connector
X5	1 x USB3.0 , with D38999 connector

X6 1 x Power Input , with D38999 connector

POWER

Power input AC 100 ~ 240V Input

OPERATING SYSTEM

OS Windows® 10 64-bit / Linux (support by request)

PHYSICAL

Dimension HEIGHT: 16.31" (414MM)
WIDTH: 24.58" (624MM)
DEPTH: 10.56" (268MM)

Weight Active Cooled 15 Kg
Conduction Cooled 20 Kg

Chassis SECC

Heatsink Heat sink Aluminum Alloy with Fan

ENVIRONMENTAL

Green Product RoHS, WEEE compliance

Operating Temp. -20 to 60°C

Storage Temp. -40 to 85°C

Relative Humidity 5% to 95%, non-condensing

MIL-STD-810 SPECIFICATIONS (OPERATING)

Method 502.5 Procedure 2 Low Temperature -20°C, 4 hours, ±3°C

Method 501.5 Procedure 2 High Temperature +60°C, 4 hours, ±3°C

Method 507.5 Humidity 85%-95% RH without condensation, 24 hours/ cycle, conduct 10 cycles.

Method 514.6 Vibration 5-500Hz, Vertical 2.20Grms, 40mins x 3axis.

Method 516.6 Shock 20 Grms, 11ms, 3 axes.

MIL-STD-810 SPECIFICATIONS (NONE-OPERATING)

Method 502.5 Procedure 1 Low Temperature -33°C, 4 hours, change rate: ≤ 20°C/ Hour
Storage -15°C, 72hours (By request)

Method 501.5 Procedure 1 High Temperature +71°C, 4 hours, change rate: ≤ 20°C/ Hour
Storage +63°C, 240 hours (By request)

Method 514.6 Vibration 5-500Hz, Vertical 2.20Grms, 40mins x 3axis.

Method 516.6 Shock 20 Grms, 11ms, 3 axes.

Ordering Information

Ordering Information	Thermal	Connector	CPU	Graphic Card	Description
PS2-ST10	Active Cooling	standard	Intel® Xeon® Silver 4210 Processor	NVIDIA® T1000	DUAL 23.8" TFT-LCD, Intel® Xeon® Silver 4210 Processor, NVIDIA® T1000 1 x COM,1 x IPMI LAN, 2 x GbE LAN, 2 x USB2.0, 2 x USB3.0, 1 x VGA, AC 100~240V Input
PS2-SA20	Active Cooling	standard	Intel® Xeon® Silver 4210 Processor	NVIDIA® RTX A2000-6G Memory	DUAL 23.8" TFT-LCD, Intel® Xeon® Silver 4210 Processor, NVIDIA® RTX A2000/6G Memory, 1 x COM,1 x IPMI LAN, 2 x GbE LAN, 2 x USB2.0, 2 x USB3.0, 1 x VGA, AC 100~240V Input
PS2-SA30	Active Cooling	standard	Intel® Xeon® Silver 4210 Processor	NVIDIA® RTX A2000-12G Memory	DUAL 23.8" TFT-LCD, Intel® Xeon® Silver 4210 Processor, NVIDIA® RTX A2000/12G Memory, 1 x COM,1 x IPMI LAN, 2 x GbE LAN, 2 x USB2.0, 2 x USB3.0, 1 x VGA, AC 100~240V Input
PS2-SA40	Conduction Cooling	DTL 38999	Intel® Xeon® Silver 4216 Processor	NVIDIA® RTX A4000 -16GB Memory	DUAL 23.8" TFT-LCD, Intel® Xeon® Silver 4216 Processor, NVIDIA® RTX A4000/16G Memory, 1 x VGA, 2 x LAN, 2 x COM, 2 x USB2.0, 1 x USB3.0, 1 x Power Input with D38999 connectors

(P.S. Appearance please see last page)

Appearance



- Dual Display
- X1 = 1 X VGA
- X2 = 2 X LAN
- X3 = 2 X COM
- X4 = 2 X USB2.0
- X5 = 1 X USB3.0
- X6 = 1 X DC-in



- Dual Display
- Hand Strap
- 4 x PCIe slots
- VGA port
- LAN1/LAN2
- 2 x USB3.0
- 1 x IPMI LAN
- 2 x USB2.0
- 1 x COM
- 1 x AC-in