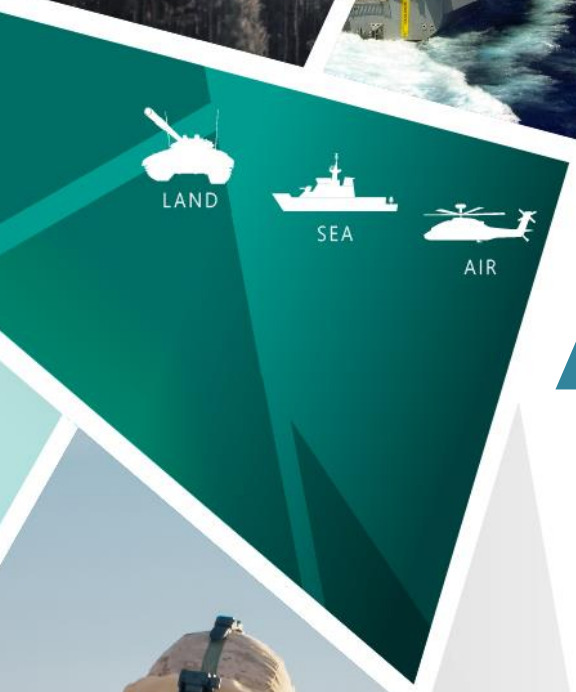

AV800-D27-KA50

IP65 Military IceLake D-2700 series GPU Server

- Intel XEON DE-2796NT 20 Cores 2.0GHz Max Turbo 3.10GHz
- 256GB RDIMM ECC DDR4-2933
- NVIDIA RTX Ada 5000 9728 CUDA cores PCIe Gen 4.0 X 16
- 2 x 1GBase-T, 2 x 10GBase-T LAN
- 4 x RS232/422/485
- 2 x 2TB 2.5" Swappable SATA Drive with AES function
- KVM USB dongle
- Hardware Secure Erase(AES) button, Swappable CMOS battery
- MIL-STD 18V~36V EMI DC Input , Options for MIL-STD-704/ 461/ 1275 10V~40V DC
- Extreme Temperature -20°C to 60°C

Specifications

System

CPU	Intel® XEON™ DE 2796NT, 20 Core, 3.1GHz
Memory type	4 x DDR4-2933 RDIMM ECC up to 256GB
Chipset	Intel® SoC Integrated
GPU	NVIDIA RTX Ada 5000 9728 CUDA Cores PCIe Gen 4.0 x 16
KVM	KVM USB dongle
LAN	2 x 1GBase-T , 2 x 10GBase-T LAN
Storage	2 x 2TB 2.5" SSD with AES function
Power Type	18V~36V EMI DC Input , Options for 10V~36V DC- IN
Operating Temperature	-20° to +60° C
Dimension	405mm x 316mm x 195mm (W x L x H)
Weight	N.W. 19.4 Kg (42.7 lbs.)

Front I/O

J1	1 x 10GBase-T Amphenol RJFTV6A7SA1N
J2	1 x 10GBase-T Amphenol RJFTV6A7SA1N
J3	1 x KVM LAN Amphenol RJFTV6A7SA1N
J4	1 x Mini DP Amphenol MDPFTV7ANF312
J5	1 x DC-In Amphenol TVS07RF-15-4P
J6	1 x RS232, 1 x RS422, 1 x RS485 Amphenol TVS07RF-13-35S
J7	1 x 1GBase-T Amphenol RJFTV6A7SA1N
J8	1 x USB 3.0 Amphenol USB3FTV7AZNF312

Environmental

MIL-STD-810 Test	Method 500.5, Procedures I and II (Altitude, Operation): 12,192M, (40,000 ft) for the initial cabin altitude (18.8Kpa or 2.73 Psia) Method 500.5, Procedures III and IV (Altitude, Non-Operation): 15,240, (50,000 ft) for the initial cabin altitude (14.9Kpa or 2.16 Psia) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock) Method 507.5, Procedure II (Temperature & Humidity)

	Method 509.7 Salt Spray (50±5)g/L Method 514.6, Vibration Category 24/Non-Operating (Category 20 & 24,Vibration) Method 514.6, Vibration Category 20/Operating (Category 20 & 24,Vibration) Method 516.6, Shock-Procedure V Non-Operating (Mechanical Shock) Method 516.6, Shock-Procedure I Operating (Mechanical Shock)
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001 Certified Quality Program.
MIL-STD-461	CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 200 MHz - 3.2 GHz, 50 V/m equal for all frequencies EN 61000-4-2: Air discharge: 8 kV, Contact discharge: 6kV EN 61000-4-3: 10V/m EN 61000-4-4: Signal and DC-Net: 1 kV EN 61000-4-5: Leads vs. ground potential 1kV, Signal und DC-Net: 0.5 kV CE and FCC
MIL-STD-1275	Steady State – 20V~33V, Surge Low – 18V/500ms, Surge High – 100V/500ms Emitted spikes Injected Voltage surges Emitted voltage surges Voltage ripple (2V) Voltage spikes Starting Operation Reverse polarity
MIL-STD-704	Load Measurements (LDC101) Steady State Limits for Voltage (LDC102) Voltage Distortion Spectrum (LDC103) Total Ripple (LDC104) Normal Voltage Transients (LDC105) Power Interrupt (LDC201) Abnormal Steady State Limits for Voltage (LDC301) Abnormal Voltage Transients (LDC302) Emergency Steady State Limits for Voltage (LDC401) Starting Voltage Transients (LDC501) Power Failure (LDC601) Phase Reversal (LDC602)
Operating Temp.	-20 to +60°C
Storage Temp.	-40 to +85°C
Relative Humidity	5% to 95%, non-condensing.

Appearance

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 representative.