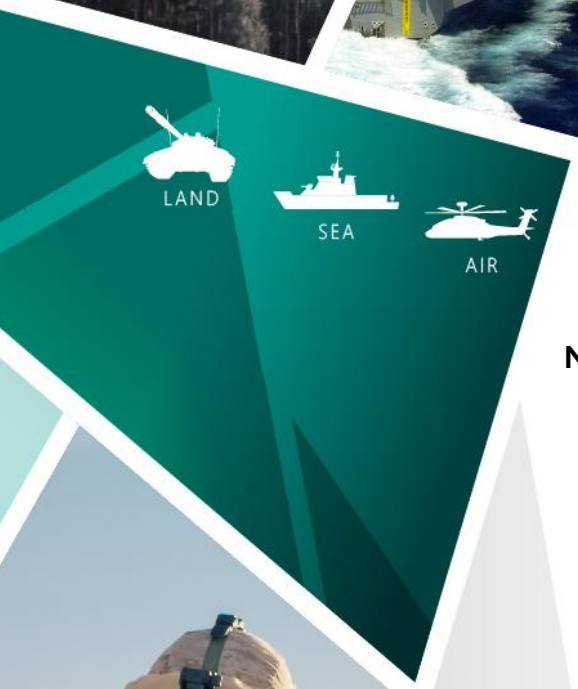


NV500-DY

Military Jetson Thor T5000 Computer

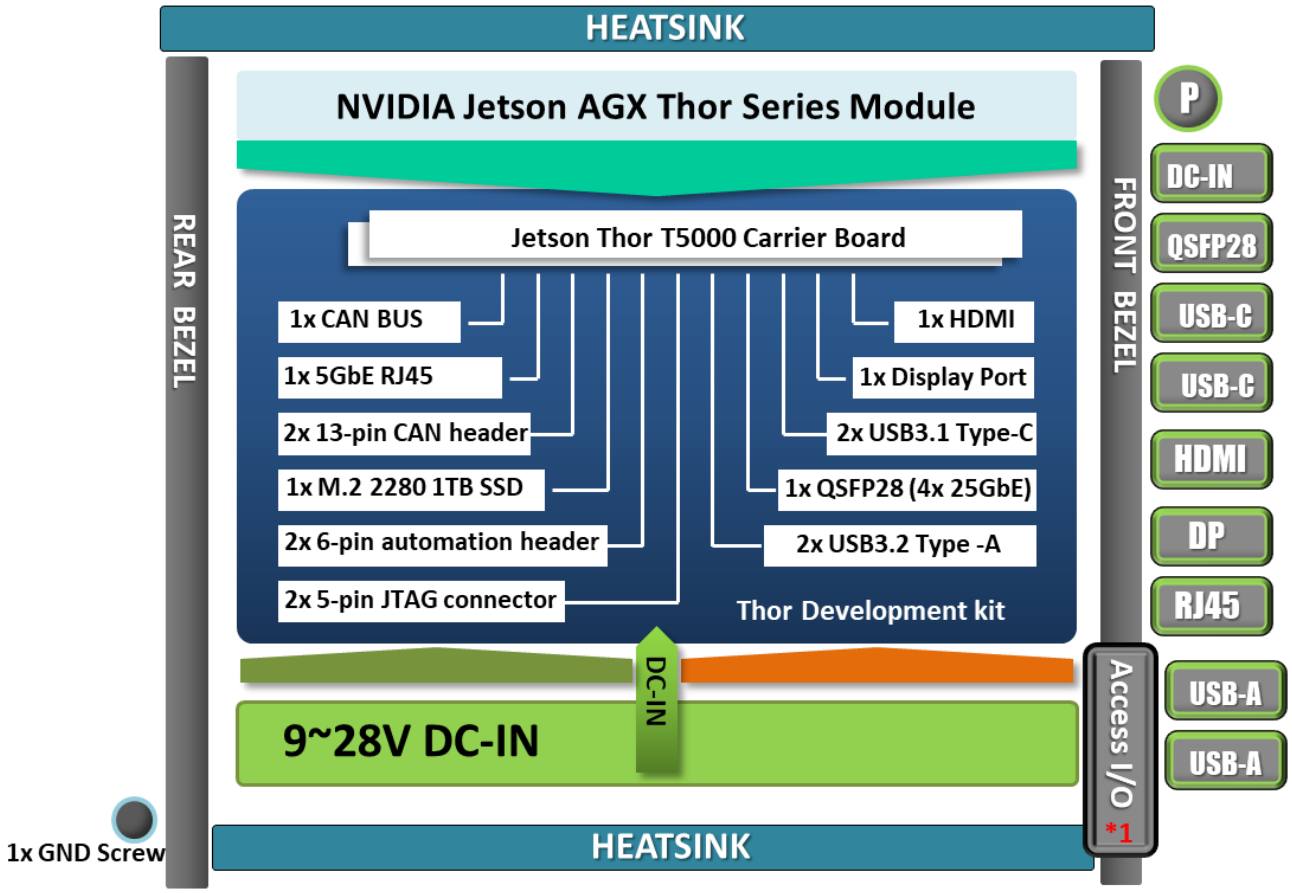
- NVIDIA Jetson Thor T5000 Military Computer
- 2,070 FP4 TFLOPS AI Compute powered by Blackwell GPU
- 14-core ARM® Neoverse® CPU
- 128 GB 256-bit LPDDR5X Memory
- 1 x QSFP for 4 x 10GbE or 25GbE
- Operating Temperature: -20˚C to +60°C
- MIL-STD-810 Vibration Method 514.6: ◎Acceleration: 5.0 Grms
- MIL-STD-810 Vibration Method 514.6: ◎PSD: 0.01257 g2/Hz
- MIL-STD-810 Shock Method 516.6: ◎Wave Form: Half Shine Wave
- MIL-STD-810 Shock Method 516.6: ◎Acceleration: 75G

Specifications

System	
High Performance Processor	14-core Arm® Neoverse®-V3AE 64-bit CPU 64 KB I-Cache, 64 KB D-Cache 1 MB L2 cache per core 16 MB shared system L3 cache
GPU	2560-core NVIDIA Blackwell architecture GPU with 96 fifth-gen Tensor Cores Multi-Instance GPU (MIG) with 10 TPCs
AI Performance	2,070 TFLOPS (FP4—Sparse)
Memory Type	128 GB 256-bit LPDDR5X, 273 GB/s
Expansion Slot	
Expansion Slot	M.2 Key E slot with x1 PCIe Gen5 (populated with WiFi and Bluetooth module), 1x M.2 2230 E Key
Display	
Graphics Interfaces	1 x HDMI 2.0 (max resolution 3840x2160) 1 x Display Port 1.4a
Storage	
M.2	1 x M.2 Key M slot with x4 PCIe Gen5 (populated with 1 TB NVMe)
Ethernet	
Controller	1 x 5GbE RJ-45 (RTL8126) 1 x QSFP for 4 x10GbE (Default) or 25GbE
Front I/O	
Power Button	1 x Power button
Phoenix Jack	9~28V DC-IN
Networking I	1 x QSFP28 (4 x 25GbE)
USB	2 x USB3.1 Type-C (one for Recovery)
Display	1 x HDMI 2.0b 1 x Display port 1.4a
Networking II	1 x 5GbE RJ45 connector
USB	2 x USB3.2 Type-A
Access I/O	
Debug	1 x USB Type-C
Recovery	1 x Recovery Button

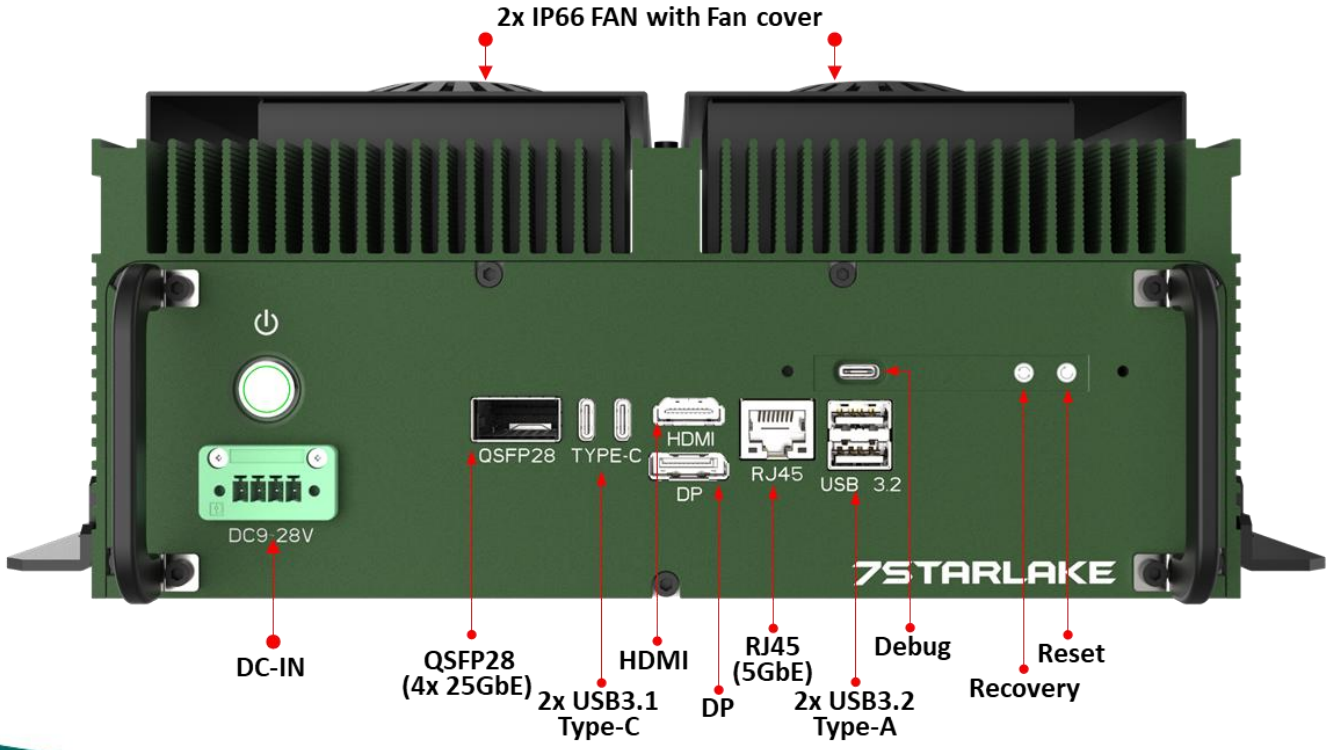
Reset	1 x Reset Button
Inner I/O	
	2 x 13-pin CAN header 2 x 6-pin automation header 2 x 5-pin JTAG connector 1 x 4-pin fan connector—12 V, PWM, and Tach 2 x 5-pin audio panel header 2-pin RTC backup battery connector
Power Requirement	
Power Input	9-28V DC-IN, 40W-130W
Operating System	
Operating System	Ubuntu 24.04 with JetPack 7.X
Physical	
Dimensions	250 x 250 x 118 mm (W x D x H)
Weight	TBC
Chassis	Aluminum AL6061
Heatsink	Aluminum Alloy, Corrosion Resistant.
Finish	Anodic aluminum oxide ; Color: PANTONE 7743C , Black (optional)
Cooling	Natural Passive Convection/Conduction. No Moving Parts
Environmental	
MIL-STD-461 (Options)	
EMC	CE102 basic curve, 10kHz - 30 MHz RE102-4, (1.5 MHz) -30 MHz - 5 GHz RS103, 1.5 MHz - 5 GHz, 50 V/m equal for all frequencies
Reliability	No Moving Parts; Passive Cooling. Designed & Manufactured using ISO 9001/2000 Certified Quality Program
Operating Temp.	-20°C to 60°C
Storage Temp.	-40°C to 85°C
Relative Humidity	5% to 95%, non-condensing

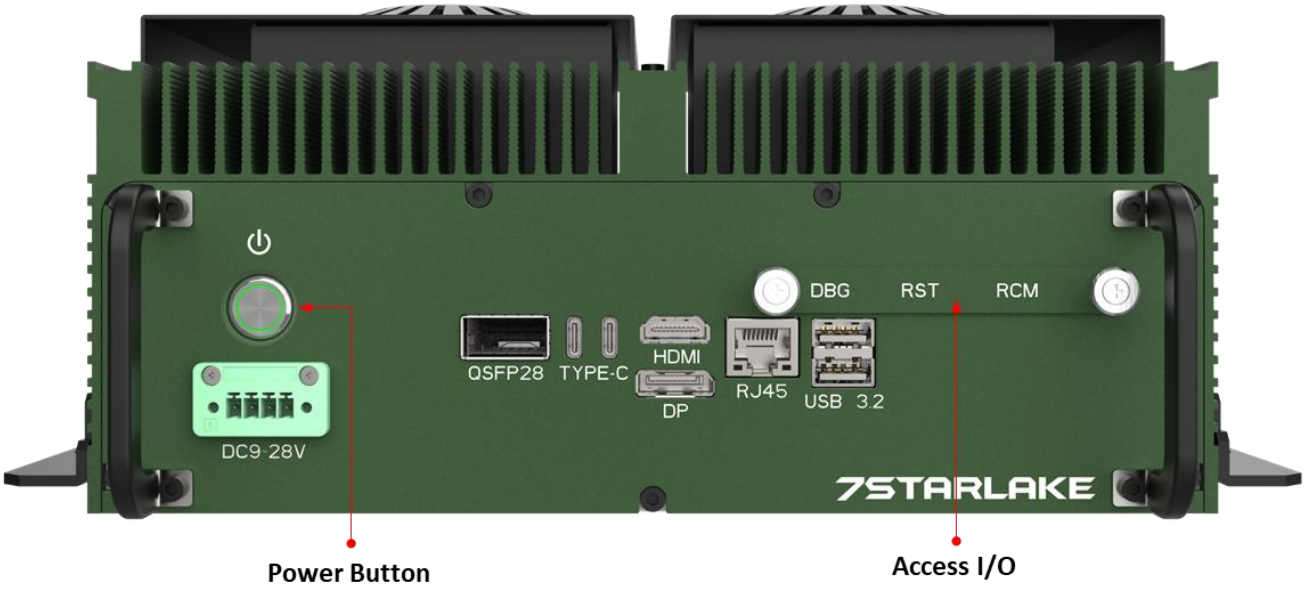
Block Diagram



*1: 1x Debug, Recovery, Reset

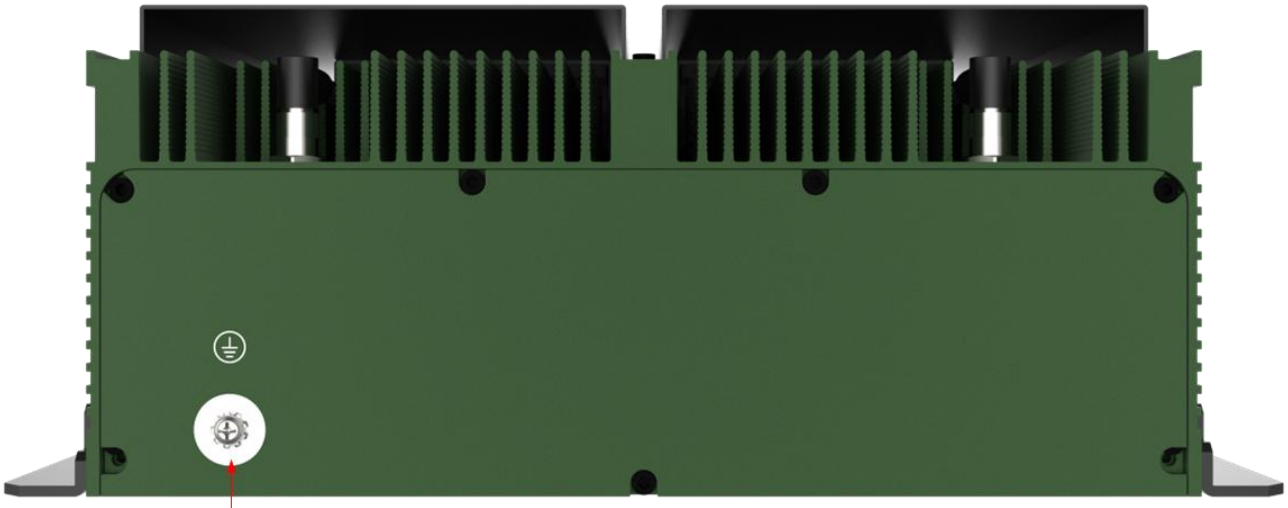
Appearance





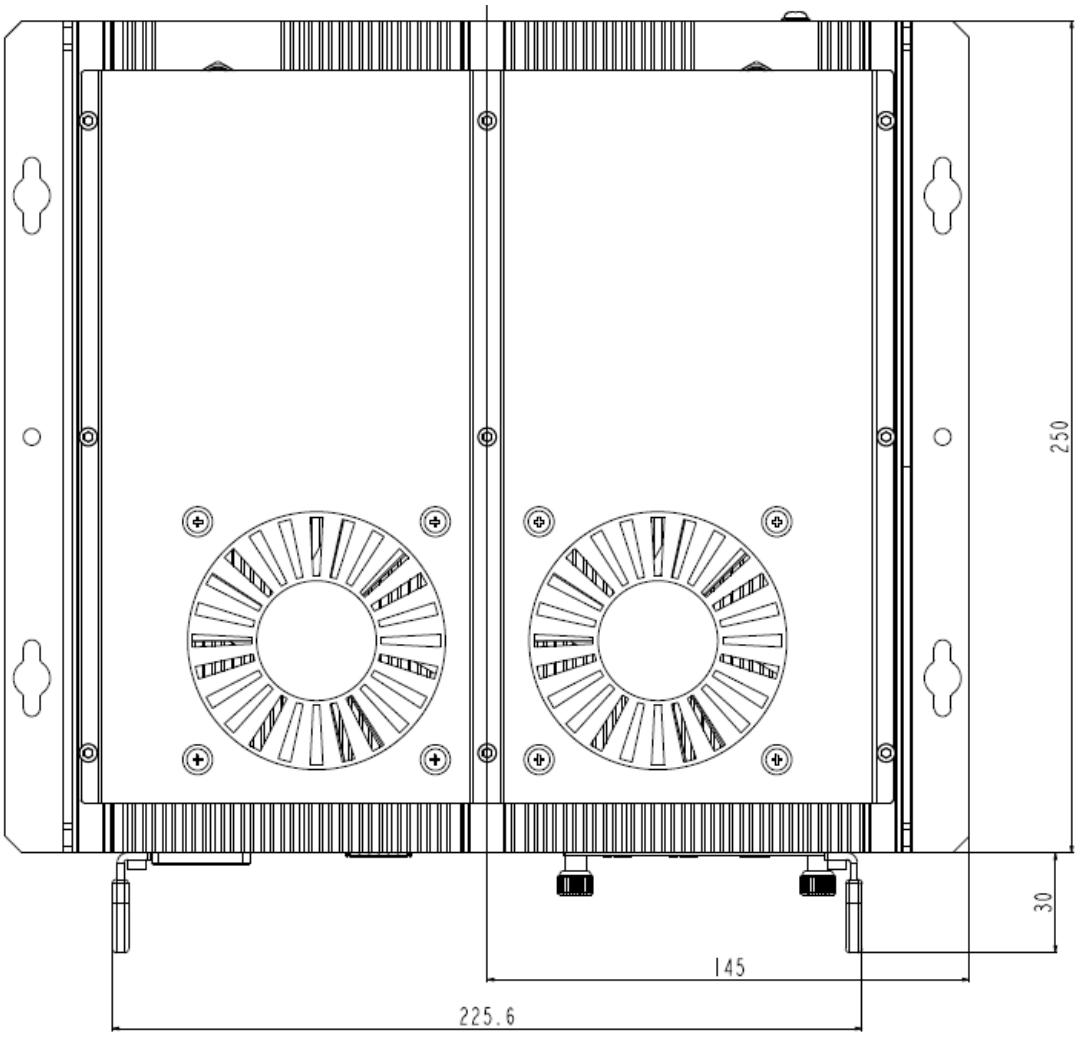
Power Button

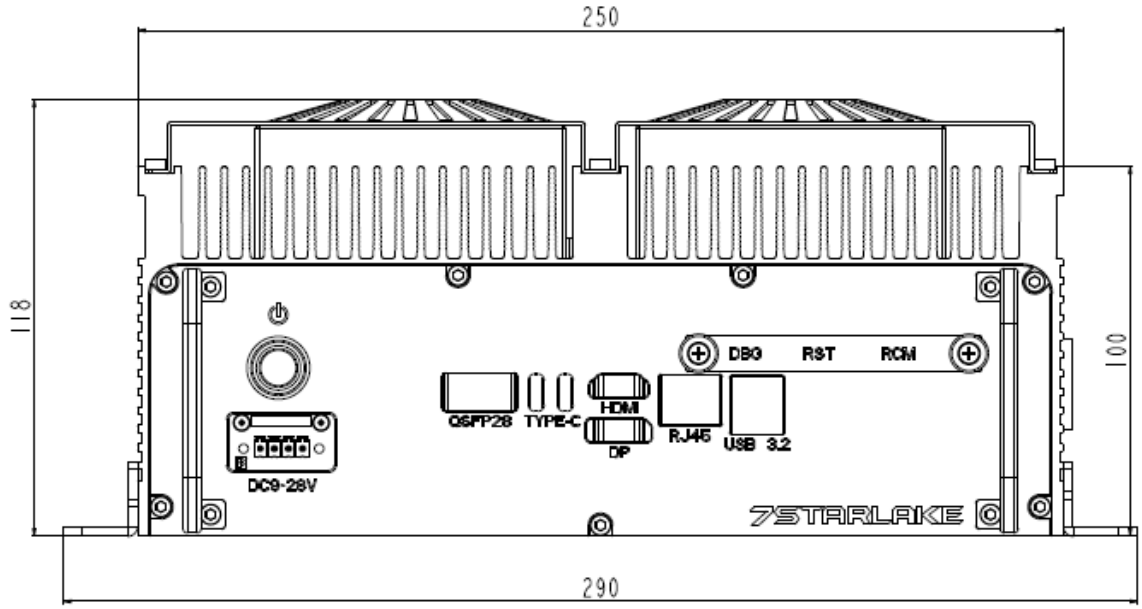
Access I/O



GND screw

Dimension





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