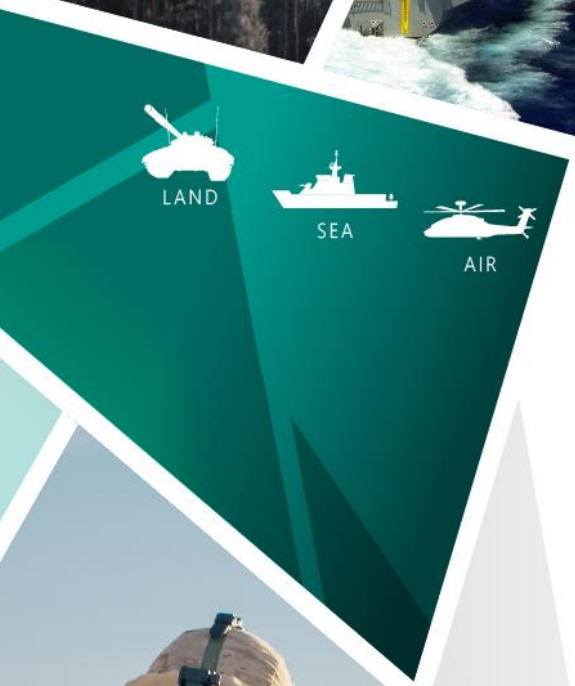


NV500-IR

Military Jetson THOR Computer
T5000 series

MIL-STD 810G

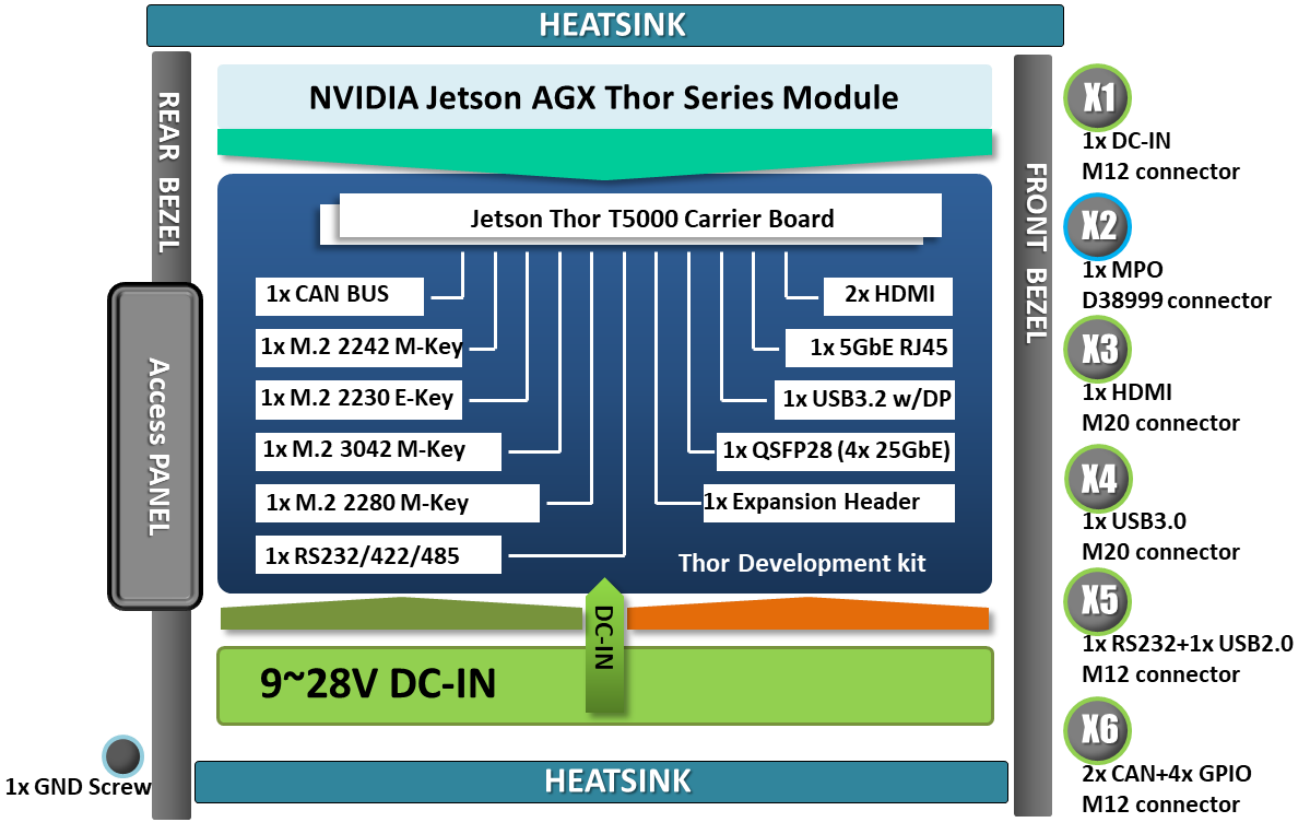
- NVIDIA Jetson THOR T5000 Military Computer
- 2070 FP4 TFLOPS AI Compute powered by Blackwell GPU
- 14-core ARM® Neoverse® CPU
- 128 GB 256-bit LPDDR5X Memory
- 1x QSFP28 (MPO) 100GbE
- Operating Temperature: -20℃ ~ 60℃
- MIL-STD-810 Vibration Method 514.6: ◎Acceleration : 5.0 Grms
- MIL-STD-810 Vibration 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	2070 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)
Display	
Graphics Interfaces	1x HDMI 2.0 (max resolution 3840x2160)
Storage	
M.2	1x M.2 Key M slot with x4 PCIe Gen5 (populated with 1 TB NVMe)
Ethernet	
Controller	2x GbE (OOB on board, one port is NCSI) 1x QSFP for 4x25GbE
Front I/O	
Power Button	1x Power button
X1	9~28 V DC-IN with M12 connector
X2	1x QSFP28 (4x 15GbE) with MPO connector
X3	1x HDMI 2.0b with M20 connector
X4	1x USB3.0 Type-A with M20 connector
X5	1x RS232 + 1x USB2.0 with M12 connector
X6	2x CANbus+4x GPIO with M12 connector
Rear I/O	
GND	1x GND screw
Access I/O	

Debug	1x USB Type-C1
Recovery	1x USB Type-C
Recovery	1x Recovery Button
Reset	1x Reset Button
Power Requirement	
Power Input	40W~ 130W
Operating System	
Operating System	Ubuntu 24.04 with JetPack 7.X
Physical	
Dimension	250 x 250 x 118 mm (W x D x H)
Weight	TBD
Chassis	Aluminum AL6061
Heatsink	Aluminum Alloy, Corrosion Resistant
Finish	Anodic aluminum Oxide (Color: RAL7743C)
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 to 60°C
Storage Temp.	-40 to 85°C
Relative Humidity	5% to 95%, Non-Condensing.

Block Diagram



Appearance