



MILBOX-THR

RUGGEDIZED AGX THOR COMPUTER



HIGHLIGHTS

- › Delivers an extraordinary 2070 TFLOPS AI Performance
- › Ultra-fast data transfers with 4x 10G Ethernet ports
- › Advanced video interfaces (2x HDMI 2.0, 2x 3G-SDI output, 2x 3G-SDI input)
- › Extensive I/O connectivity (4x CAN FD, 4x RS-232/422/485, 8x digital I/Os)
- › Rich Storage and AI accelerator support (3x M.2 Key-M PCIe Gen5 slots)
- › Reliable power & environmental endurance; operates within 11–60 VDC range
- › Built-in security & monitoring; integrated TPM 2.0, IMU, temperature sensors

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson T5000 NVIDIA Jetson T4000
Memory	128 GB 256-bit LPDDR5X
Graphics Interfaces	2x HDMI2.0 Display Output 2x 3G-SDI Display Output 2x 3G-SDI Video Input
Interfaces	4x 10G Ethernet (Copper) 3x USB3.1 4x CAN FD (Isolated) 4x RS-232/422/485 (Isolated) 8x Digital I/O (3.3V Level, Isolated) TPM2.0 Chipset 6-Axis IMU & Temperature Sensor EEPROM
Wireless Communication	None
Power Supply	11-60 VDC
Extension Sockets	1x M.2 Key-M 2280 PCIe Gen5 x4 (used for 2x 3G-SDI Video Input by default) 1x M.2 Key-M 2280 PCIe Gen5 x2 1x M.2 Key-M 2280 PCIe Gen5 x1 Camera Expansion Slot (for optional Analog Video Input or GMSL2 features)
Mass Storage	Up to three NVMe SSD support
Ambient Conditions	-25°C ... +70°C
Form Factor / Dimensions	300mm x 225mm x 105mm, 5500gr
Operating Systems	Ubuntu Linux 24.04
Operating Humidity	5% - 95% (non-condensing)
Designed to Meet	MIL-STD-810G, MIL-STD-461G, MIL-STD-704F, MIL-STD-1275E, DO-160G, IP67
JetPack Support	JetPack-7.x

The MILBOX-THR is a military-grade Edge AI computer powered by the latest NVIDIA Jetson AGX Thor SoM, delivering unprecedented AI performance and reliability in the harshest environments. Designed to meet MIL-STD-810G, MIL-STD-461G, MIL-STD-704F, MIL-STD-1275E, and DO-160G standards, it operates flawlessly under extreme temperature, vibration, and humidity conditions. Featuring 4x 10G Ethernet, multiple 3G-SDI and HDMI 2.0 outputs, isolated serial and CAN FD interfaces, and PCIe Gen5 expansion, it provides seamless connectivity for defense, aerospace, and autonomous mission platforms. With 11–60 VDC wide power input, integrated TPM 2.0 security, and advanced IMU, temperature sensing, and digital I/O, the MILBOX-THR redefines ruggedized AI computing—bringing data-center-class intelligence directly to the tactical edge.



Defense



Aerospace



Marine



Transportation

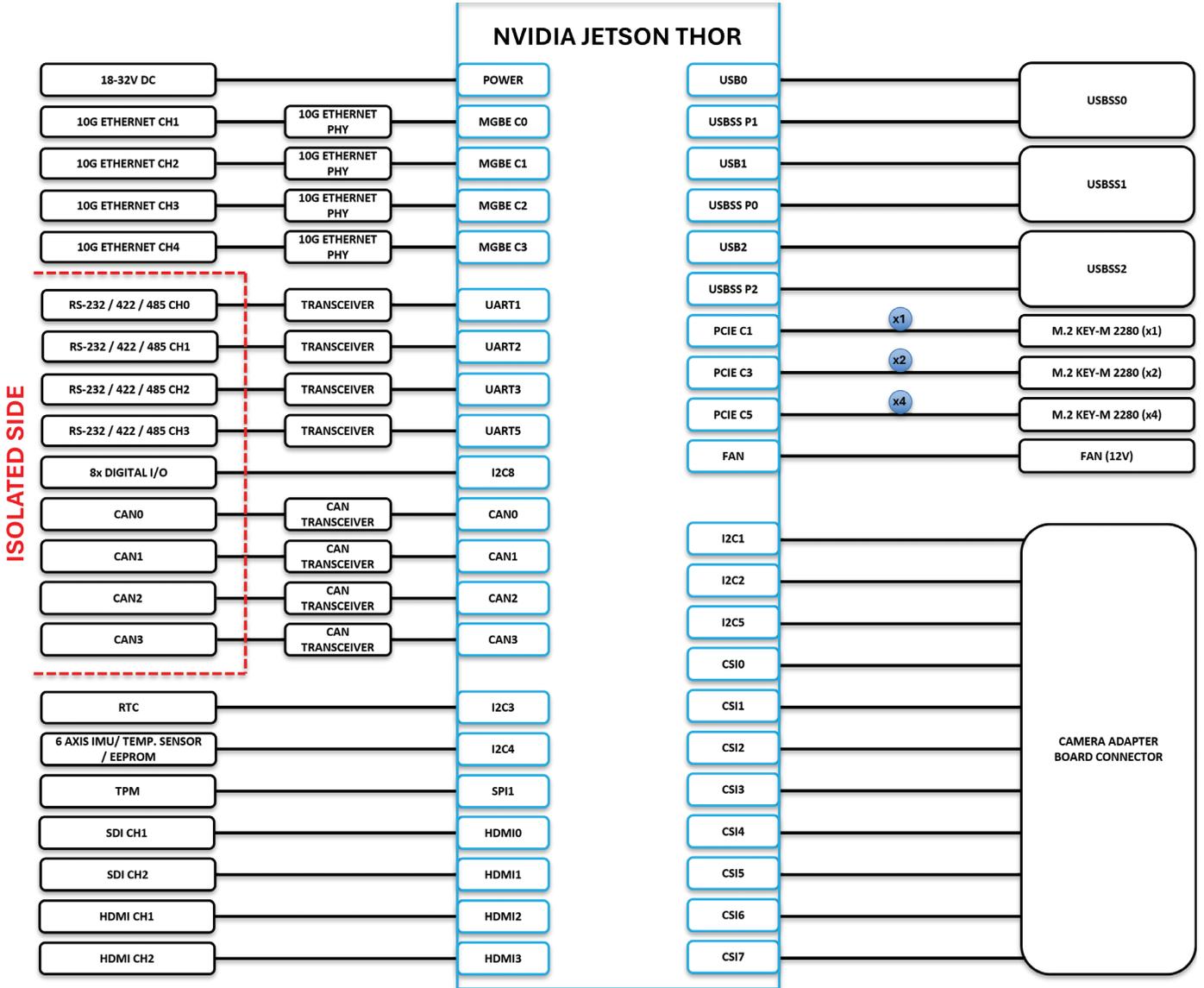


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BLOCK DIAGRAM



FOR ORDERING



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