



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 IGX T5000 NVIDIA Jetson T5000 NVIDIA Jetson T4000
Memory	64 GB 256-bit LPDDR5X 128 GB 256-bit LPDDR5X
Graphics Interfaces	2x HDMI2.0 Display Output
Interfaces	4x 10G Ethernet (Copper) 3x USB3.2 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
Optional Video Interfaces	2x 3G-SDI Display Output 2x 3G-SDI Video Input Analog Video Input GMSL2 Video Input
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	-40°C ... +70°C (with IGX T5000) -25°C ... +70°C (with Jetson T4000/T5000)
Form Factor / Dimensions	300mm x 225mm x 103mm, 6.1kg
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 an advanced military-grade Edge AI computer powered by the NVIDIA® Jetson™ AGX Thor platform, delivering server-class computational performance and absolute reliability in the harshest environments. Designed to fully comply with MIL-STD-810G, MIL-STD-461G, MIL-STD-704F, MIL-STD-1275D, and DO-160G standards, the system operates reliably under extreme temperature, intense vibration, and severe humidity conditions.

Featuring 4x 10G Ethernet, multiple 3G-SDI and HDMI 2.0 output, isolated serial links, CAN FD bus interfaces, and PCIe Gen5 expansion slots, the device provides comprehensive, high-bandwidth connectivity for defense, aerospace, and autonomous mission platforms. Equipped with an 11–60 VDC wide power input, integrated TPM 2.0 security, an advanced IMU, internal temperature sensing, and digital I/Os, the computing platform delivers data-center-class intelligence directly to the tactical edge.



Defense



Aerospace



Marine



Transportation



Preliminary Datasheet

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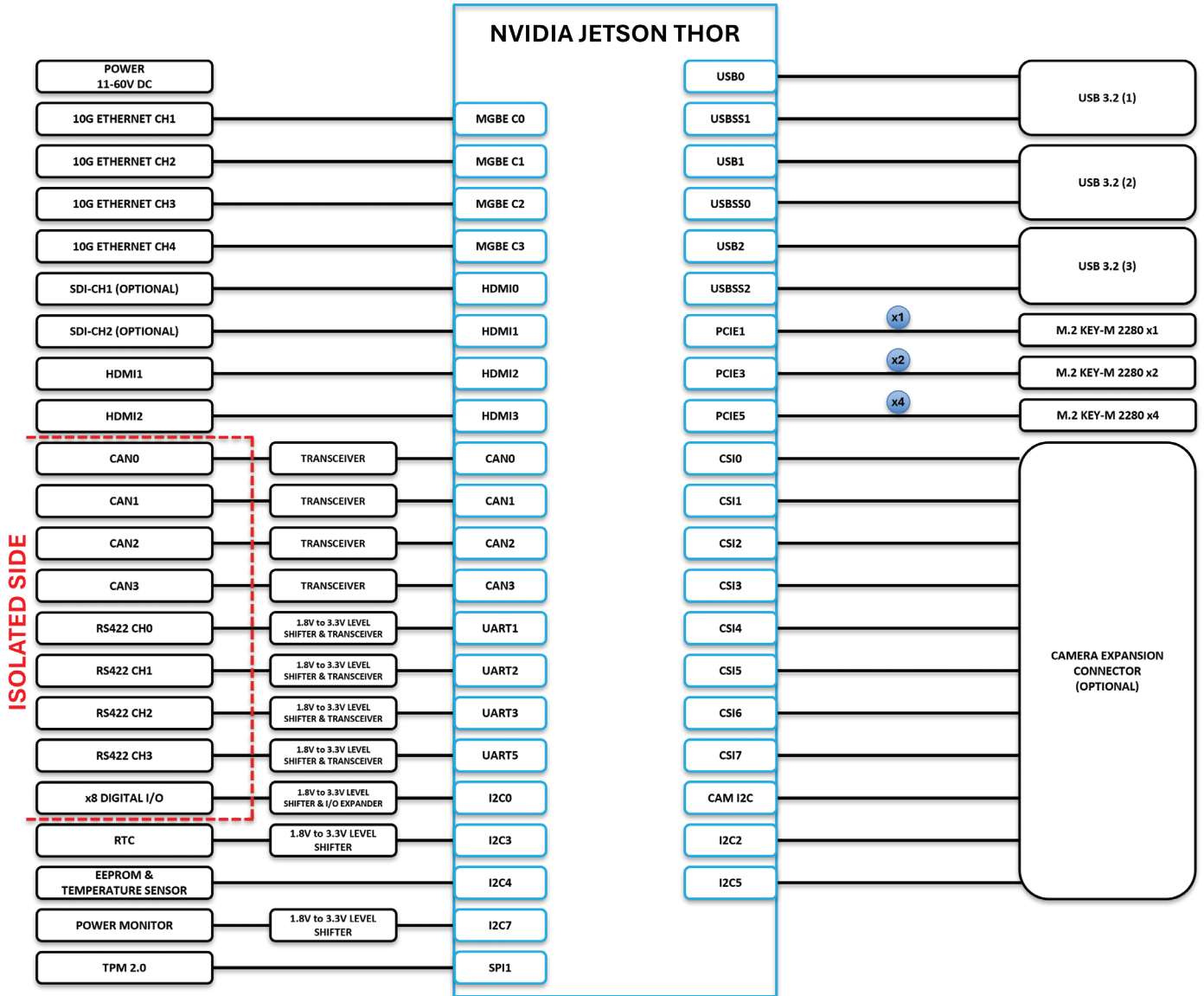
Elite
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MILBOX-THR

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BLOCK DIAGRAM



FOR ORDERING



FORECR OÜ (REG NO: 16578675)

VAT No: EE102592089
Sakala tn 7-2, Tallinn, 10141, Estonia
NCAGE Code : 018WJ
DUNS Number: 565578232

FORECR OÜ (TECHNOPOL OFFICE)

Akadeemia tee 21/1 (4th floor), 12618, Tallinn, Estonia

FORECR ELEKTRONIK LTD. STI. (R&D)

Universiteler Mah. 1606. Street Bilkent Cyberpark B-301,
06800, Ankara, Türkiye



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