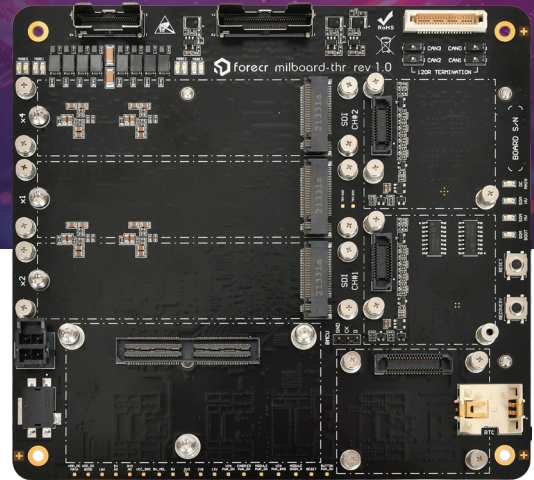




# MILBOARD-THR

## MIL-GRADE AGX THOR CARRIER BOARD



### HIGHLIGHTS

- › Unleash 2070 TFLOPS of AI dominance for demanding edge workloads
- › Shatter bandwidth bottlenecks with quad 10G Ethernet ports
- › Drive mission-critical visuals with dual HDMI 2.1 and optional 3G-SDI
- › Master connectivity with 4x CAN FD, Serial ports, and 8x Digital I/Os
- › Propel performance with three M.2 PCIe Gen5 slots for fast storage
- › Safeguard assets with TPM 2.0, IMU, and precise thermal monitoring
- › Ensure longevity with industrial-grade parts and premium X7R capacitors
- › Defy shock and vibration with robust locking connectors

### TECHNICAL SPECIFICATIONS

<b>Supported Modules</b>	NVIDIA Jetson T5000 NVIDIA Jetson T4000
<b>Memory</b>	128 GB 256-bit LPDDR5X 64 GB 256-bit LPDDR5X
<b>Video Output</b>	2x HDMI 2.1 2x 3G-SDI (Optional via Expansion Slots)
<b>Interfaces</b>	4x 10GBASE-T Ethernet 3x USB 3.2 4x CAN FD (Isolated) 4x RS-232/422/485 (Isolated) 8x Digital I/O (3.3V, Isolated)
<b>Other Features</b>	TPM 2.0 Chipset for Enhanced Security 6-Axis IMU & Temperature Sensor EEPROM External RTC IC for 10+ years lifetime
<b>Power Supply</b>	18–36 VDC Input
<b>Extension Sockets</b>	1x M.2 Key-M 2280 (PCIe Gen5 x4) 1x M.2 Key-M 2280 (PCIe Gen5 x2) 1x M.2 Key-M 2280 (PCIe Gen5 x1) 1x Camera Expansion Slot (Optional Analog Video / GMSL2) 1x Expansion Header (PCIe x1, USB2.0, I2C, I2S, SPI, GPIO)
<b>Mass Storage</b>	Up to three NVMe SSD support
<b>Ambient Conditions</b>	-40°C to +85°C (Carrier Board)
<b>Form Factor / Dimensions</b>	150 mm x 140 mm
<b>Operating Systems</b>	Ubuntu Linux 24.04
<b>Operating Humidity</b>	5% - 95% (non-condensing)
<b>JetPack Support</b>	JetPack-7.x

MILBOARD-THR redefines ruggedized AI computing, bringing data-center class intelligence directly to the tactical edge. Purpose-built for the rigorous demands of the defense and aerospace sectors, this powerhouse is powered by the formidable NVIDIA Jetson T5000 and T4000 modules. It unleashes a staggering 2070 TFLOPS of compute capability, effortlessly crushing the most complex AI inference and sensor fusion workloads.

The system seamlessly orchestrates massive data throughput via a superior connectivity suite, featuring quad 10GBASE-T Ethernet ports and mission-critical 3G-SDI video interfaces. Built to withstand the unforgiving realities of the field, the MILBOARD-THR is constructed exclusively with industrial-grade components and premium X7R capacitors, ensuring zero-failure operation. It combines this hardened physical architecture with next-generation expandability through triple PCIe Gen5 slots and rock-solid security via TPM 2.0. Optimized for tactical power grids, the system operates with unwavering stability within a precise 18–36 VDC input range, delivering uncompromising performance where others fail.



Defense



Aerospace



Marine

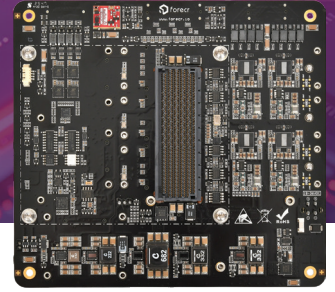


Transportation

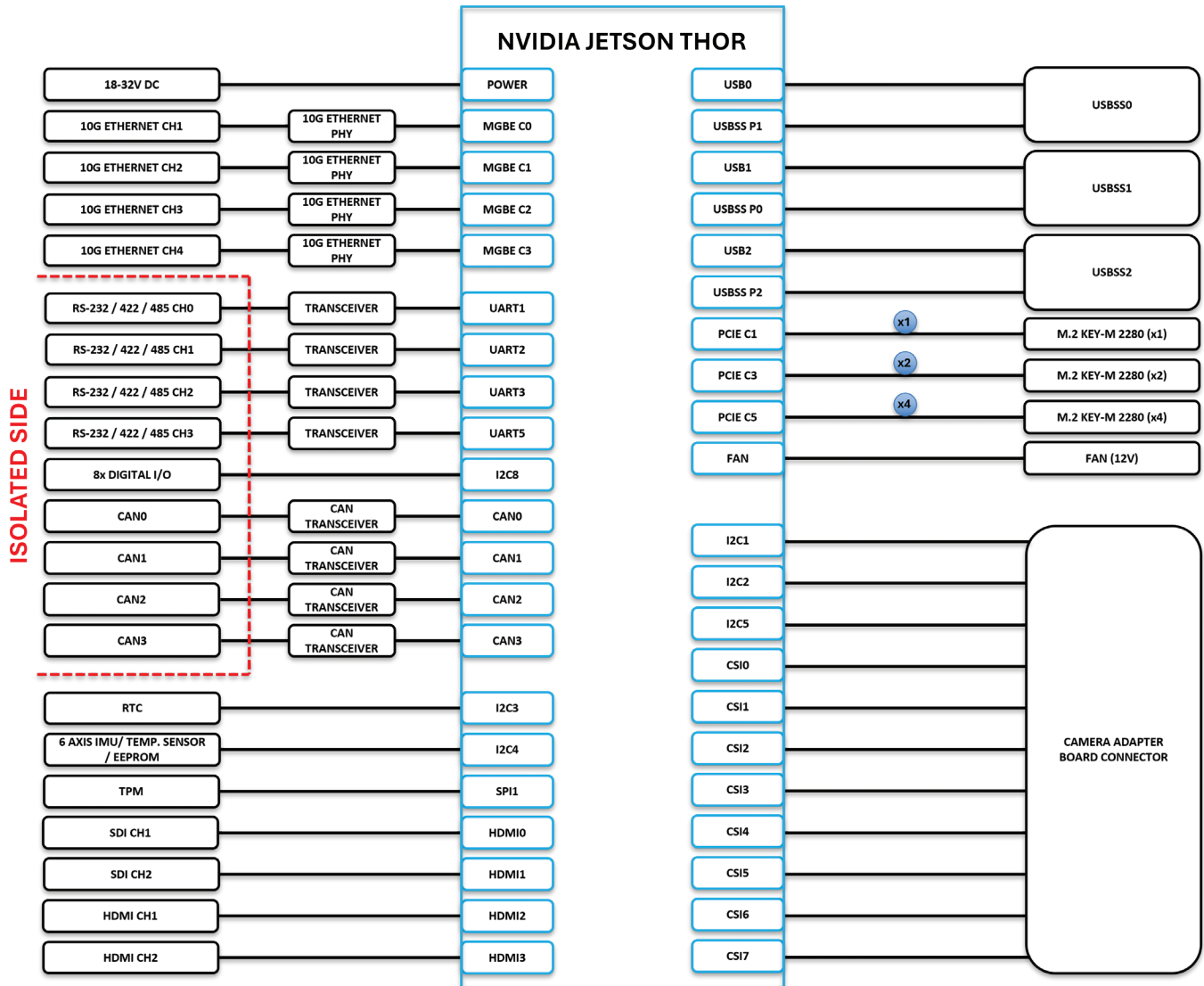


# MILBOARD-THR

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## BLOCK DIAGRAM



## FOR ORDERING



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