



DSBOARD-THRMAX

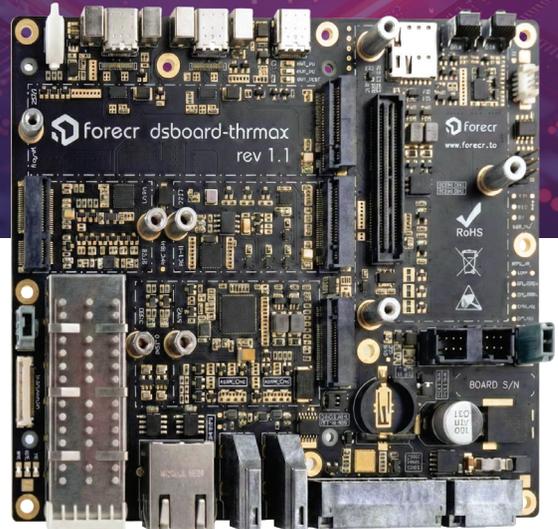
NVIDIA JETSON THOR™ MODULE CARRIER BOARD

HIGHLIGHTS

- Accelerated by NVIDIA Jetson T4000 & T5000 (2070 TFLOPS)
- Built to Last: Industrial grade parts & X7R rated capacitors
- Rugged Design: Locking USB-C, Power & I/O connectors
- Compact Powerhouse: Comprehensive I/O in 140x125mm
- Hardware Security: Integrated TPM 2.0 chipset
- Wireless Ready: Sockets for WIFI, BT, LTE/ 5G, GPS/GNSS
- Next-Gen Expansion: Future-proof storage & interfaces

TECHNICAL SPECIFICATIONS

Supported Modules	NVIDIA Jetson T4000 NVIDIA Jetson T5000
Memory	64 GB 256-bit LPDDR5X 128 GB 256-bit LPDDR5X (273 GB/s)
Graphics Interfaces	2x HDMI 2.1 2x DP 1.4 (Micro-Coax)
Interfaces	1x Gigabit Ethernet (RJ45) 2x USB3.2 Type-C with Screw-Lock 1x USB2.0 Type-C (Debug) 1x QSFP28 (4x 25GbE) 1x RS-232/422/485 4x CAN-FD 2x Digital Input (11-60V) 3x Digital Output (Low-Side Switch, up to 60V) EEPROM, 6-Axis IMU, Temperature Sensor RTC (10+ years lifetime)
Wireless Communication	WIFI, BT, LTE/ 5G, GPS/GNSS Connectivity by extension sockets
Security	ST33TPHF2XSPI TPM2.0 chipset
Power Supply	18-36V DC
Extension Sockets	1x M.2 Key-B 3042/3052 (USB3.0, USB2.0) 1x M.2 Key-E 2230 (PCIe x1, USB2.0) 1x Camera Expansion Connector (6x 2-Lane or 4x 4-Lane) 1x Expansion Header (1x I2C, 1x I2S, 1x SPI, 2x UART, 2x PWM, 2x CAN-FD) 1x nanoSIM FAN Connector (12V)
Expansion Cards	4x USB3.0 Type-A 2x HDMI2.0 (Optional, uses M.2 Key-M 2280 slot) Camera addon cards for GMSL2 Analog Video or MIPI CSI (Optional)
Mass Storage	1x M.2 Key-M 2280 (PCIe Gen4 x4) 1x M.2 Key-M 2242 (PCIe Gen4 x2)
Ambient Conditions	-40°C ... +85°C (Carrier Board)
Form Factor/Dimensions	140x125mm
Operating Systems	Ubuntu Linux 24.04
JetPack Support	NVIDIA JetPack 7.x



Introducing the DSBOARD-THRMAX, FORECR's most advanced carrier board purpose-built for the groundbreaking NVIDIA Jetson T5000 and T4000 platforms.

With a powerful up to 128GB LPDDR5X memory interface, high-speed PCIe Gen4 storage, and a wide array of I/O options including 2x HDMI 2.1, 2x DP 1.4 (Micro-Coax), locking USB 3.2 Type-C, QSFP28, and robust serial connectivity, this compact 140x125mm board is engineered to support the most demanding edge AI applications.

Built for seamless deployment in mission-critical environments, the DSBOARD-THRMAX ensures long-term reliability through an optimized thermal design for efficient heat dissipation, exclusive use of industrial-grade components, and X7R-rated capacitors. It integrates a TPM 2.0 chipset for hardware-level security, alongside industrial features like an operating range of -40°C to +85°C, ruggedized digital I/Os, CAN-FD, and sensor interfaces such as IMU and temperature monitoring. Its flexible expansion ecosystem supports WiFi, Bluetooth, LTE/5G modules, and high-bandwidth camera connectivity, while NVIDIA JetPack 7.x and Ubuntu Linux 24.04 ensure optimal software compatibility.



Robotics



Autonomous Systems



Transportation



Industrial Automation



Smart City



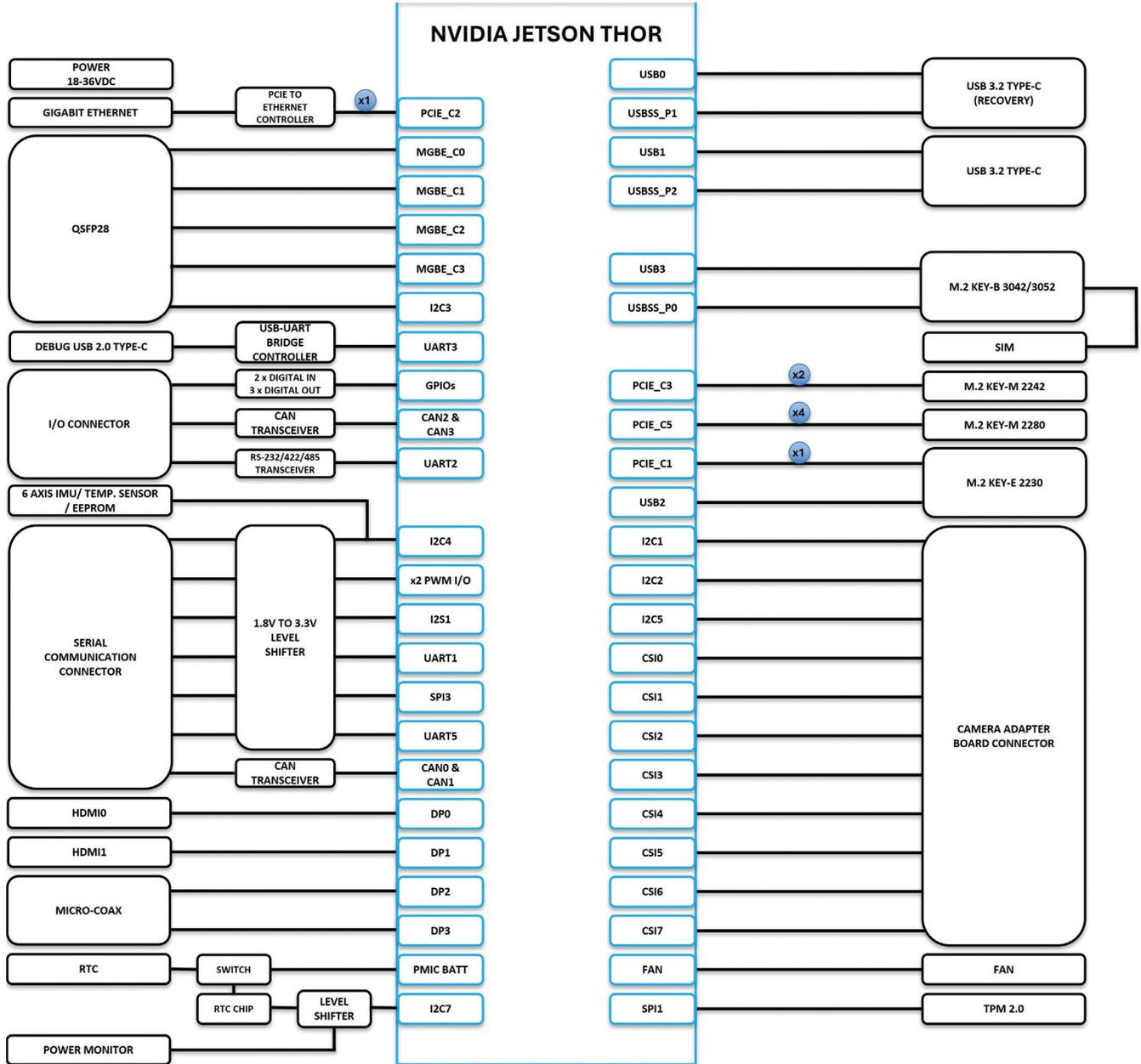
Energy



DSBOARD-THRMAX

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BLOCK DIAGRAM



FOR ORDERING



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