



TT314 Industrial Thor Computer

For Industrial Automation and AI-Powered Sensing

Key Features

- ▶ Rugged fanless platform
- ▶ IP67 waterproof and dustproof
- ▶ x1 MTP 100GbE (4x 25GbE)
- ▶ x1 Gigabit Ethernet
- ▶ Wi-Fi/4G/5G
- ▶ Advanced AI Performance

Applications

- ▶ Autonomous Transportation
- ▶ Mining
- ▶ Agriculture
- ▶ Robotics
- ▶ UAV

Overview

The TT314 Industrial Thor Computer is a rugged, IP67 waterproof compute platform, engineered to be fully compatible with the Jetson AGX Thor module. It delivers high AI performance with low power consumption in a compact form factor, offering up to 1050 FP8 TFLOPs / 2100 FP4 TFLOPs. This makes it ideal for autonomous vehicles, UAVs, and Robotics, enabling real-time video processing and transcoding of up to 22x 1080p video streams.

The system provides a waterproof USB 3.2 Type-C connector with 4K Display Port output for ADAS applications requiring real-time surround-view awareness. High-speed data communication is provided via waterproof M12 GbE and MTP 100 GbE ports.

The TT314 supports a wide 12V to 36V DC input with ignition power control, 2x isolated CAN bus ports, an RS-232 port, and an isolated RS-485 port, making it well-suited for in-vehicle deployment. Expansion options include M.2 and mini-PCIe sockets for 5G/LTE or Wi-Fi modules and M.2 NVMe storage for additional storage needs. The system also integrates an MCU for monitoring and control.

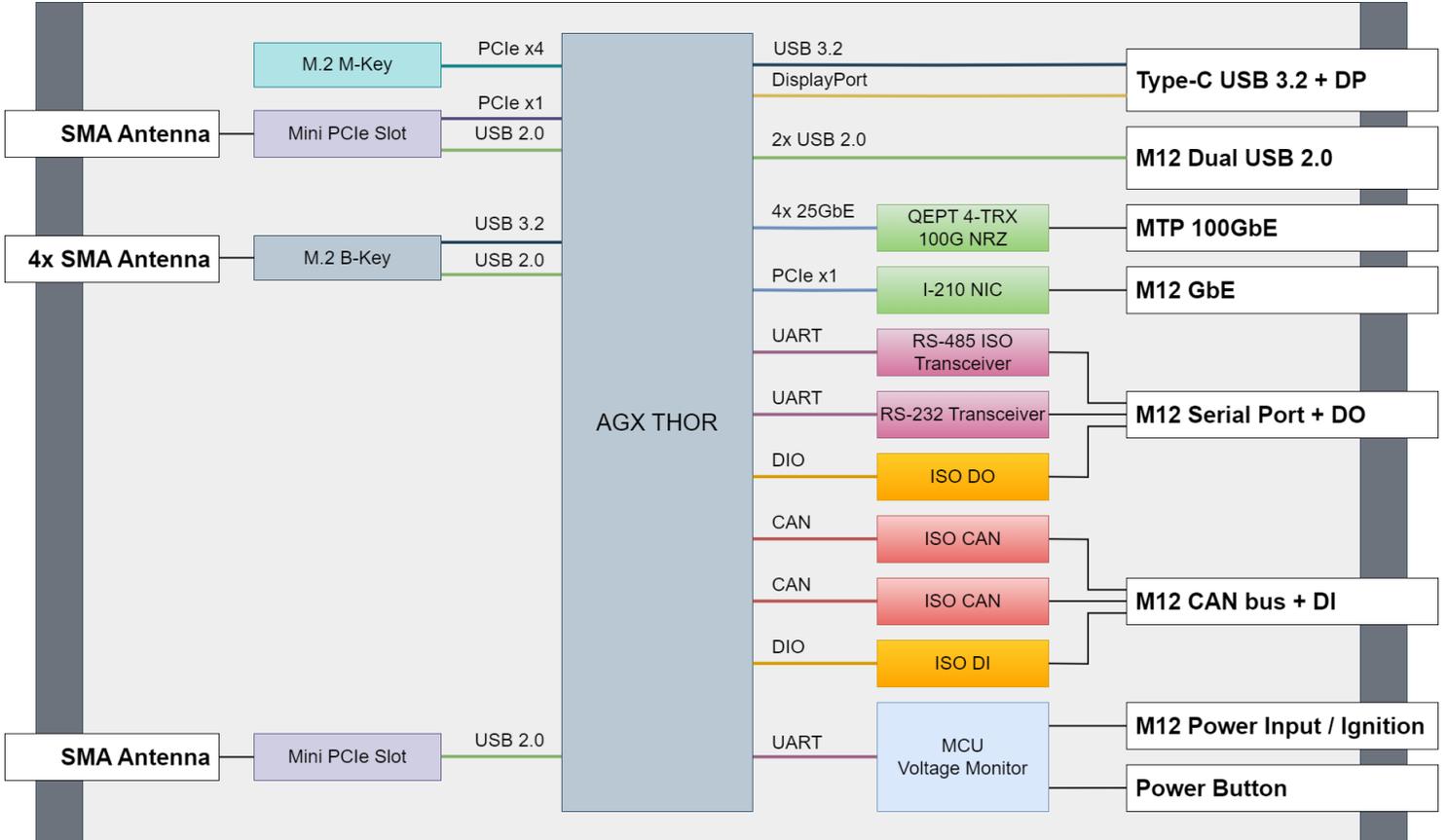
With its compact waterproof design, the TT314 provides an all-in-one solution for industrial vehicles, outdoor robotics, and edge AI inspection systems.

Key Advantages

- ▶ Powered by NVIDIA Jetson AGX Thor 128GB SOM up to 2100 FP4 TFLOP
- ▶ Rugged IP67 Waterproof Design
- ▶ 4K Graphics & High-Speed Communication
- ▶ M.2 and Mini PCIe Expansion Slots for LTE/5G/Wi-Fi and Storage
- ▶ MCU for System Monitoring



Block Diagram



Specifications

| | |
|-------------------|--|
| SOM | NVIDIA® Jetson AGX Thor™ up to 1050 FP8 TOPS/2100 FP4 TOPS |
| SYSTEM MEMORY | 128GB LPDDR5x 4266MHz 256-bit, 273GB/s on Jetson AGX Thor™ SOM |
| DISPLAY INTERFACE | USB Type-C Display Port |
| ETHERNET | 1x 100GbE MTP Interface (4x 25GbE) |
| | 1x GbE LAN |
| I/O | USB 3.2 Type-C + DP |
| | 2x USB 2.0 |
| | Serial Ports + Isolated DO (1x isolated RS-485, 1x RS-232) |
| | 2x isolated CAN 2.0 + Isolated DI |
| EXPANSION | 1x M.2 PCIe Slot B-key (for LTE/5G) |
| | 1x M.2 PCIe Slot M-Key (for NVMe SSD) |
| | 1x Mini PCIe Slot (USB 2.0 + PCIe x1) |
| | 1x Mini PCIe Slot (USB 2.0) |
| INDICATOR | Power LED |
| OS SUPPORT | Ubuntu 24.04 |
| POWER REQUIREMENT | 18V to 36V DC input with Ignition Control |
| | Maximum 210W total power budget |
| DIMENSION | 235 mm (W) x 260 mm (D) x 122 mm (H) |

Environmental

| | |
|-----------------------|---|
| OPERATING TEMPERATURE | -25°C to 60°C |
| STORAGE TEMPERATURE | -40°C to 85°C |
| HUMIDITY | 10% to 90%, non-condensing |
| VIBRATION | Operating, MIL-STD-810H, Method 514.8, Category 4 |
| SHOCK | Operating, MIL-STD-810H, Method 516.8, Procedure I |
| EMC | Designed to meet FCC, CE, and UL certifications, where applicable |

Ordering Options

| Part Number | Description |
|-------------------|---|
| TT314-100-000-000 | TT314 with NVIDIA Jetson AGX Thor 128GB |

The system can be customized for specific customer requirements, contact Tauro Technologies sales for details.



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