



TT314 Rugged AGX 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 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.

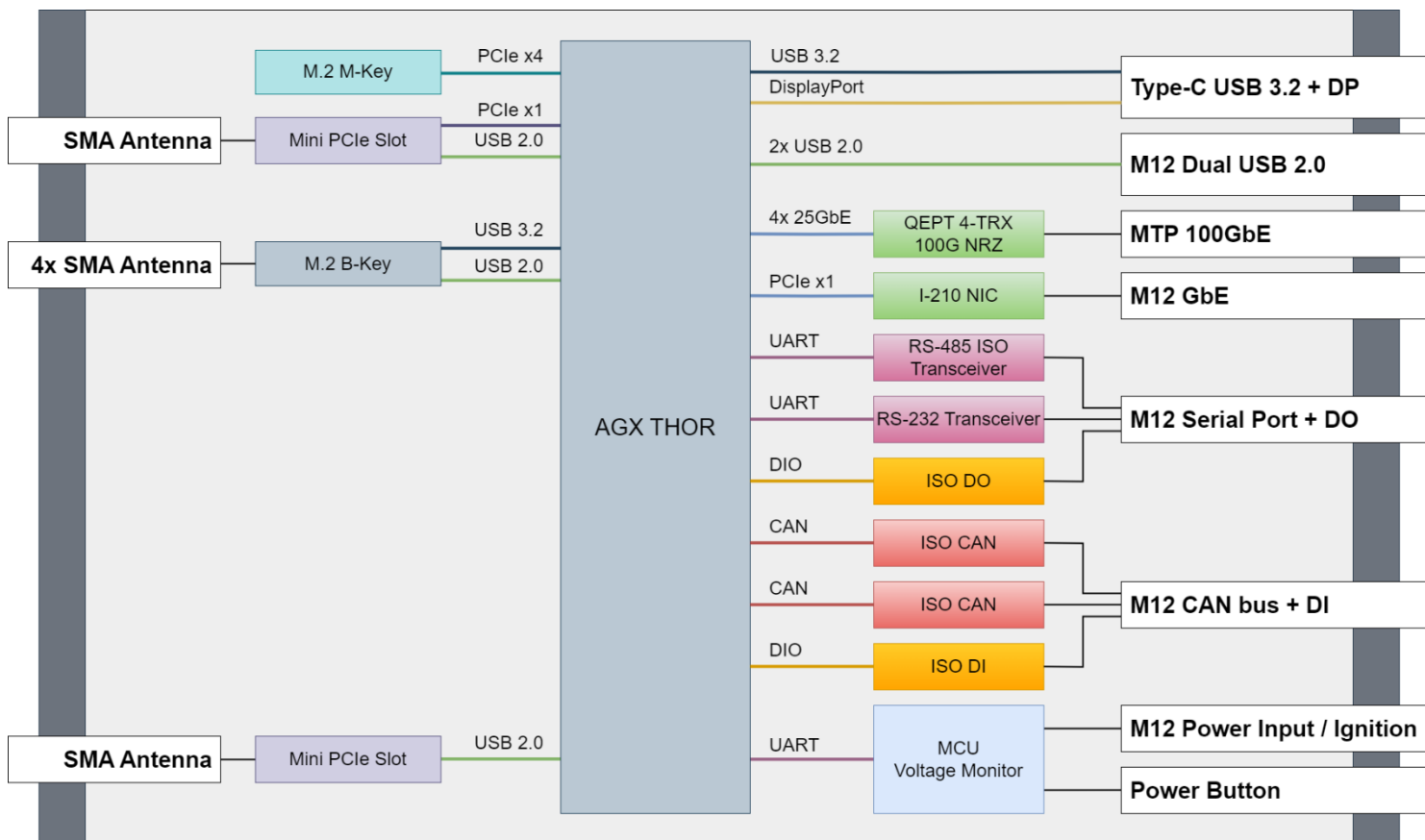
Key Advantages

- ▶ 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



TT314 Rugged Thor Computer

Block Diagram



9205 W. Russell Rd., Ste 240
Las Vegas, NV 89148
taurotech.com

Phone: +1 (725) 220-6100
Email: sales@taurotech.com



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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



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Ordering Options

TT314-ABC-DE0-00J		
A = SOM	D = MINI PCIE SLOT [J3A] (PCIE + USB 2.0)	
0 = RESERVED 1 = AGX THOR T5000* 2 = AGX THOR T4000* 3 = IGX THOR T5000*	0 = RESERVED	
B = M.2 M-KEY [J1]	E = MINI PCIE SLOT [J3B] (USB 2.0)	
0 = RESERVED 1 = 256GB NVME SSD	0 = RESERVED	
C = M.2 B-KEY [J14]		J = COOLING
0 = RESERVED		0 = PASSIVE COOLING 1 = AIR COOLED 2 = CONDUCTION COOLED 3 = LIQUID COOLED

*60W TDP max passive, TBD LFM required for full performance

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



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