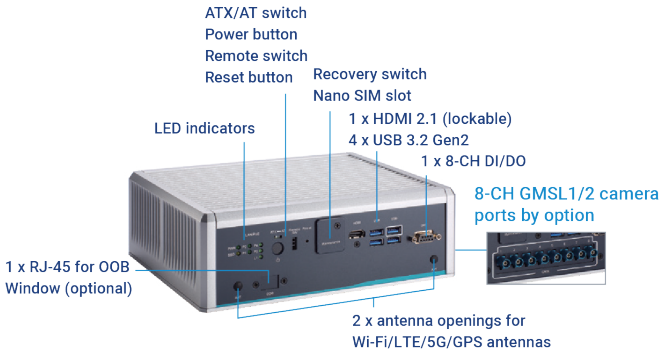
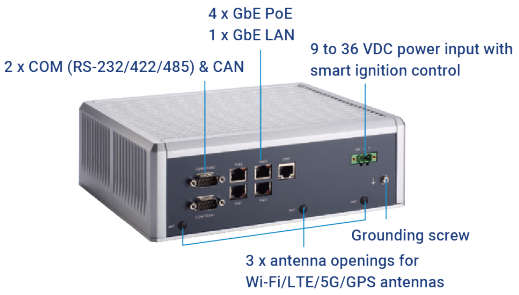
Krupp AI Vehicle Tracking System

The next generation of Krupp AI Vehicle Tracking System, powered by the advanced NVIDIA® Jetson Orin™ NX Super (up to 157 TOPS), delivers exceptional and ultra-fast AI-driven traffic monitoring and analytics directly at the edge. Designed specifically for real-time and mission-critical applications, this compact, fanless solution accurately detects and analyzes critical road incidents, including traffic congestion, collisions, vehicles traveling against traffic flow, road obstacles, vehicle recognition, traffic volume measurement, and smoke detection.



▲ Front view



▲ Rear view

FEATURES

- **Superior AI Performance:** Featuring NVIDIA® Jetson Orin™ NX Super with up to 157 TOPS, enabling powerful GPU-accelerated AI processing.
- **Robust Connectivity:** Equipped with 1 HDMI, 1 GbE LAN, 4 GbE PoE, 4 USB, 2 COM/CAN, 8-CH DIO ideal for connecting multiple AI cameras, sensors and control systems.
- **Built for Smart Cities:** Tailored specifically for edge AI applications in smart city environments, offering real-time insights for effective urban traffic management.
- **Reliable and Durable:** Operates effectively across a broad temperature range from -25°C to +60°C, suitable for harsh environmental conditions.
- **Semi-Outdoor Ready:** IP40-rated protection ensures stable performance in semi-outdoor installations.
- **Long-term Availability:** NVIDIA® Jetson Orin™ NX Super supported and available through to 2032, providing a stable, future-proof investment.

The Krupp AI Vehicle Tracking System is the ultimate choice for municipalities, urban planners, and integrators seeking a dependable, AI-powered solution to enhance traffic safety and efficiency.

Model Number	Krupp AI VTS 200A
Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
AI Accelerator	NVIDIA® Jetson Orin™ NX 16 GB Super (up to 157 TOPS)
CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere™ GPU with 32 Tensor Cores
System Memory	16GB 128-bit LPDDR5 onboard
Carrier Board	PSB908
System I/O Outlet	1 x HDMI 2.1 with 4K2K supported (lockable) 1 x 10/100/1000 Mbps (via Orin™ NX) 4 x 10/100/1000 Mbps PoE (Intel® I210-IT) *PSE, IEEE 802.3at, up to 30 watts of power 4 x USB 3.2 Gen2 (one for image update) 1 x 8-CH DI/DO 2 x DB9 for COM (RS-232/422/485) & CAN 1 x recovery switch (for image update) 1 x remote power switch 1 x AT/ATX switch 1 x reset button 1 x power button 8 x Fakra-Z connector for GMSL1/2 camera (optional) 1 x 9 to 36 VDC power input connector (with smart ignition control) 1 x grounding screw 5 x SMA-type antenna connector 1 x out-of-band (OOB) module for remote management (optional)
Watchdog Timer	Built-in Orin NX
Storage	1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot. M.2 NVMe SSD 128 GB/ 256 GB/ above
Expansion Interface	1 x full-size PCI Express Mini Card slot (USB + PCI Express signal) for Wi-Fi/LTE 1 x M.2 Key B 3042/3052 slot for LTE/5G 1 x Nano SIM slot
System Indicator	1 x green LED for system power-on 1 x yellow LED for M.2 SSD storage 1 x green LED for LAN status 4 x green LED for GbE PoE status
Power Supply	Input: 9 to 36 VDC (typical 12/24 VDC) with smart ignition control Inrush current: 1.87A/1.37A
Operating Temperature	-25°C to +60°C (-13°F to +140°F) (power mode: 25W)
Humidity	10% to 95% relative humidity, non-condensing
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, and 1 hr/axis) MIL-STD-810H, Method 514.8, and Category 20
Dimensions	239 x 185.3 x 79.4 mm (9.41” x 7.3” x 3.13”) (W x D x H)
Weight (net/gross)	2.54 kg (5.6 lb)/4.59 kg (10.12 lb)
Certifications	CE, FCC Class A, and UKCA
OS Support	Linux Ubuntu 20.04 or later

(*) Design and specifications are subject to change for product improvements without prior notice

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