

IEI TANK-XM813



Fanless System with Modular Design for Scalable Edge Al

Modern industries demand reliable computing for real-time AI at the edge. The IEI TANK-XM813 meets these challenges with a rugged, fanless design powered by Intel® Core™ Ultra processors that integrate CPU, GPU, and NPU to accelerate diverse AI workloads. Supporting up to 96GB DDR5 memory, dual 2.5GbE LAN, and optional 8× 2.5GbE LAN with PoE via expansion module, the system enables seamless data transmission and AI device integration. It also supports modular chassis with up to six expansion slots for GPU or I/O flexibility. With wide temperature tolerance (-20°C to 60°C) and 12–28V DC input, the TANK-XM813 ensures stable performance in harsh environments. Compared with conventional embedded PCs, it delivers higher AI efficiency, lower latency, and lower power consumption through heterogeneous computing—ideal for machine vision, industrial automation, and intelligent control at the edge.

Fanless Rugged

Design with

Modular Expansion

for Edge Al

Flexibility

Intel Products and Technologies

Accelerating AI and Analytics at the Edge





Intel® Ethernet



OpenVINO™ Toolkit

Key Features

Empowered by Intel.







Fanless Rugged Design



Lower Power Consumption

IEI TANK-XM813







Product Specifications

| CPU | Intel® Core™ Ultra 9/7/5 processors (Series 2) (up to 24 cores, 5.6 GHz, 35W/65W TDP) |
|-------------------------|--|
| Graphics | Integrated Intel® Graphics, and supports optional external GPU expansion (FHFL 3-slot high-end graphics cards) |
| Memory | 2 × DDR5 SO-DIMM 5600 MHz, up to 96 GB (16 GB pre-installed) |
| Storage | 2 × 2.5" SATA 6 Gb/s HDD/SSD bay, RAID 0/1 supported |
| Wireless Network | Optional M.2 2230 A-Key Wi-Fi module (IEEE 802.11 a/b/g/n/ac/ax, Bluetooth 5.2) |
| LAN | 2 × 2.5 GbE RJ45 ports (Intel® Ethernet Network Adapter I226 Series) |
| Operating/Storage Temp. | 35W CPU: -20 °C ~ 60 °C, 65W CPU: -20 °C ~ 50 °C / -40 °C ~ 85 °C |
| Dimension (W x D x H) | 230.6mm × 255mm × 68.7mm |
| Weight | Net 3.24 kg / Gross 3.6 kg |
| OS | Windows 10/11 IoT Enterprise, Linux |

Learn More

IEI TANK-XM813

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