

Industrial Edge AI Computer Powered by NVIDIA® Jetson Orin™

AI Box Series



Overview

The EnGenius AI Box Series is a family of industrial Edge AI computers powered by NVIDIA® Jetson Orin™ NX and Orin™ Nano modules, delivering scalable AI performance from efficient edge inference to high-performance AI computing. Designed for real-time video analytics, intelligent automation, and AI-driven decision-making, the series minimizes latency, reduces cloud dependency, and accelerates AI deployment across industrial automation, smart cities, transportation, surveillance, and other edge AI applications. With a rugged fanless design, rich industrial I/O, and optional Wi-Fi connectivity, the AI Box Series provides the flexibility to meet diverse deployment requirements while lowering infrastructure costs.

Key Features & Benefits

Scalable NVIDIA® Jetson Orin™ AI Computing:

- Choose from Orin™ NX and Orin™ Nano platforms with up to 157 TOPS to match different AI workloads and deployment requirements.

Real-Time Edge Intelligence:

- Enable AI-powered video analytics, machine vision, automation, and intelligent decision-making with low latency and reduced cloud dependency.

Comprehensive Industrial Connectivity:

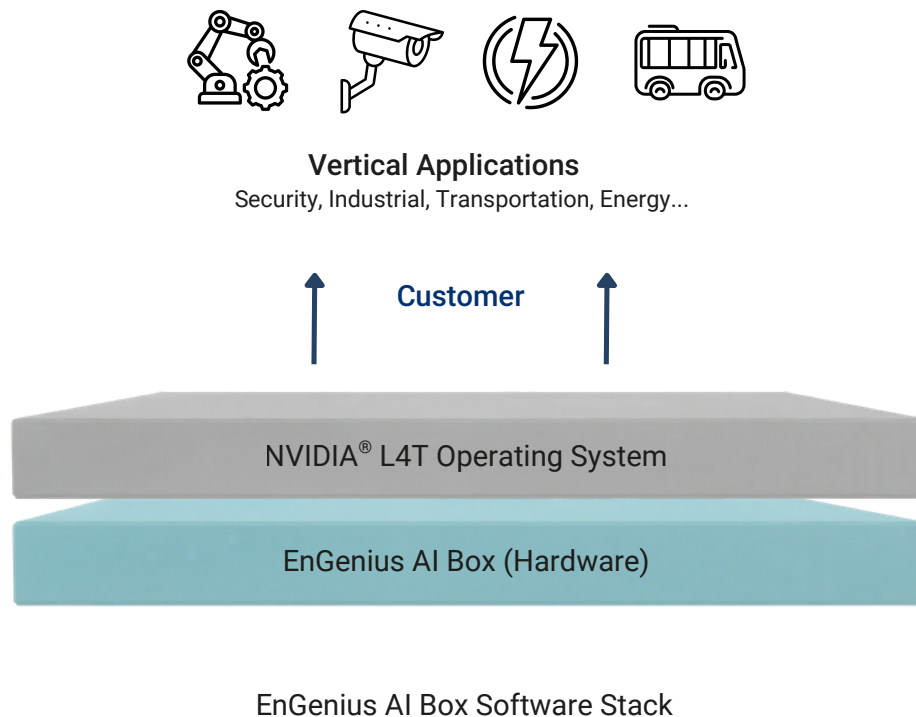
- Dual Gigabit Ethernet, optional Wi-Fi 6 & Bluetooth 5.2, and versatile industrial I/O ensure seamless integration with existing systems.

Built for Industrial Reliability:

- Fanless construction and wide operating temperature support deliver stable, maintenance-free operation in demanding environments.

Software Architecture

This product is provided as a hardware-only Edge AI computing platform, pre-installed with NVIDIA® L4T OS, NVIDIA® JetPack SDK, BSP, and all required hardware drivers. It is designed to provide a stable and flexible development environment for system integrators and AI software developers. Designed for Bring-Your-Own-AI (BYO-AI) deployments, enabling customers to install and integrate their preferred AI frameworks, models, and applications.

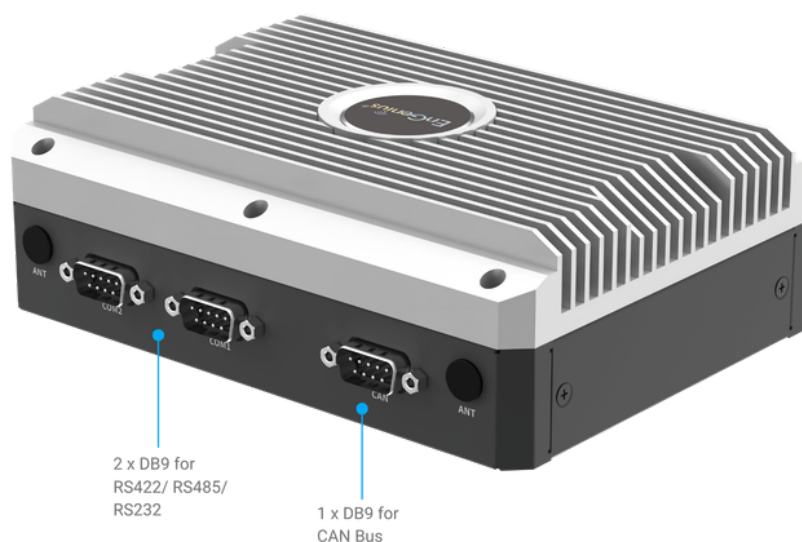
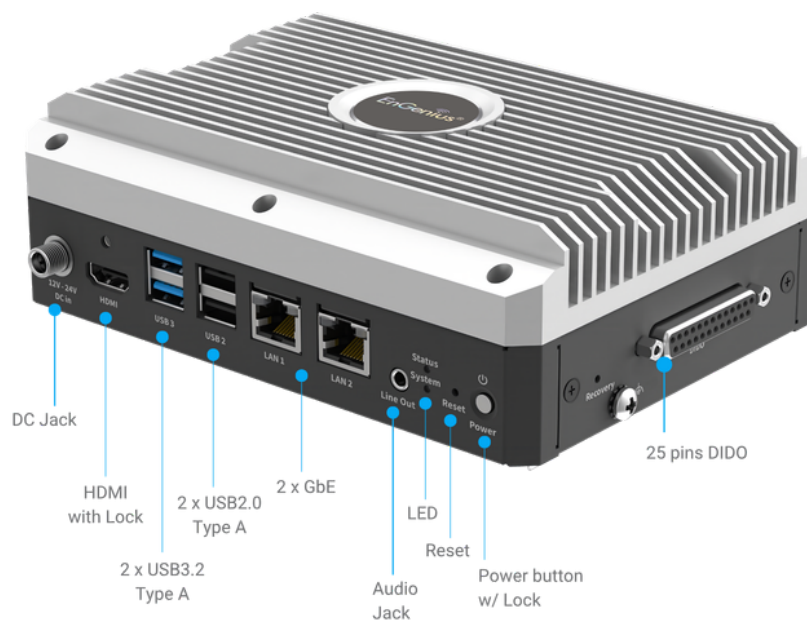


Technical Specifications

Edge AI Computer			
			
Model Name	AI BOX 67 / AI BOX 67W	AI BOX 117 / AI BOX 117W	AI BOX 157 / AI BOX 157W
Model Number	E5-NA08 / E5-NA08W	E5-NB08 / E5-NB08W	E5-NB16 / E5-NB16W
AI Platform	NVIDIA® Jetson Orin™ Nano	NVIDIA® Jetson Orin™ NX	NVIDIA® Jetson Orin™ NX
AI Performance	Up to 67 TOPS	Up to 117 TOPS	Up to 157 TOPS
CPU	6-core Arm Cortex-A78AE, up to 1.5GHz	6-core Arm Cortex-A78AE, up to 2.0GHz	8-core Arm Cortex-A78AE, up to 2.0GHz
GPU	1024-core NVIDIA Ampere GPU, 32 Tensor Cores	1024-core NVIDIA Ampere GPU, 32 Tensor Cores	1024-core NVIDIA Ampere GPU, 32 Tensor Cores
Memory	8GB LPDDR5	8GB LPDDR5	16GB LPDDR5
Operating System	NVIDIA® Linux L4T	NVIDIA® Linux L4T	NVIDIA® Linux L4T
AI Framework	NVIDIA® JetPack	NVIDIA® JetPack	NVIDIA® JetPack
Storage	256GB NVMe SSD	256GB NVMe SSD	256GB NVMe SSD
Wireless	N/A / Wi-Fi6 2x2	N/A / Wi-Fi6 2x2	N/A / Wi-Fi6 2x2
Ethernet	2 × Gigabit Ethernet	2 × Gigabit Ethernet	2 × Gigabit Ethernet
USB	2 × USB 3.2, 2 × USB 2.0	2 × USB 3.2, 2 × USB 2.0	2 × USB 3.2, 2 × USB 2.0
Display	1 × HDMI®	1 × HDMI®	1 × HDMI®
CAN Bus	1 × DB9 CAN	1 × DB9 CAN	1 × DB9 CAN
GPIO	DB25 Digital I/O	DB25 Digital I/O	DB25 Digital I/O
Audio	3.5 mm Audio Jack	3.5 mm Audio Jack	3.5 mm Audio Jack
Power Input	12~24V DC	12~24V DC	12~24V DC
NVIDIA® Linux L4T	✓	✓	✓
NVIDIA® JetPack SDK	✓	✓	✓
Board Support Package (BSP)	✓	✓	✓
Operating Temperature	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C
Storage Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Storage Humidity	5%~95% @ 40° C (non-condensing)	5%~95% @ 40° C (non-condensing)	5%~95% @ 40° C (non-condensing)
Button	1 x Power button, 1 x Reset button, 1 x Recovery button	1 x Power button, 1 x Reset button, 1 x Recovery button	1 x Power button, 1 x Reset button, 1 x Recovery button
LED	2 x LEDs	2 x LEDs	2 x LEDs
Mounting	VESA / DIN Rail / Wall Mount	VESA / DIN Rail / Wall Mount	VESA / DIN Rail / Wall Mount
Dimensions	170 × 125 × 60 mm	170 × 125 × 60 mm	170 × 125 × 60 mm
Weight	1.9kg	1.9kg	1.9kg

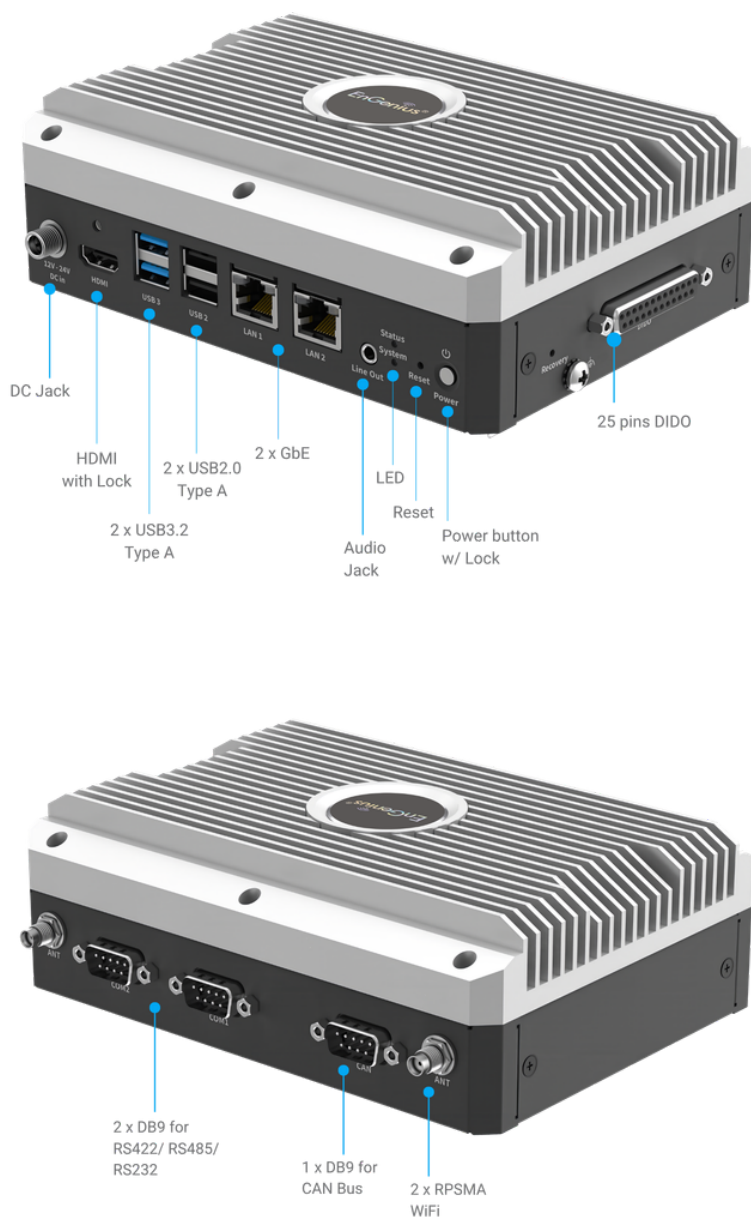
Hardware Overview

E5-NA08/ E5-NB08/ E5-NB16



Hardware Overview

E5-NA08W/ E5-NB08W/ E5-NB16W



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