EDGE AI from ASUS

Compact, Powerful, and Scalable

NUC BDM Vitalie Braghis

ASUS IN SEARCH OF INCREDIBLE

Position

Positioning

200B

13B
(Llama)

7B
(DS/YOLO)

Ascent GX10
up to 200B parameter models

ASUS Jetson Edge Computer

NUC 15
PERFORMANCE

NUC 14 PRO AI
ExpertCenter PN54

NUC 15 PRO

Next Gen AI

Advanced AI

Dev AI

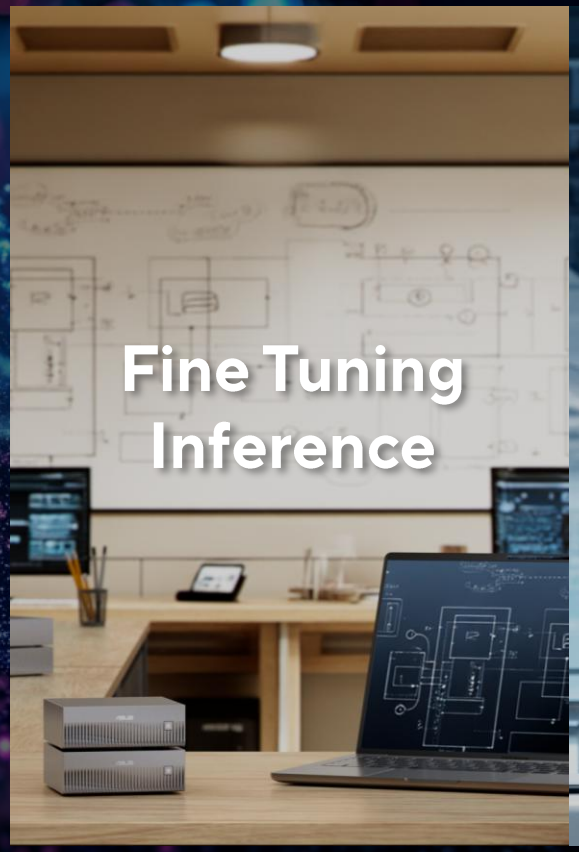
ASUS Ascent GX10

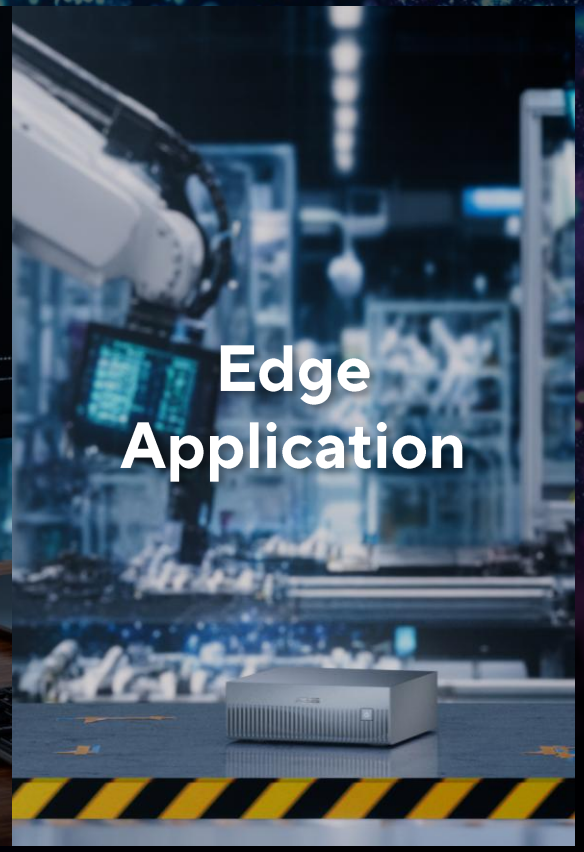
IN SEARCH OF INCREDIBLE

AI Experience

Key Workloads

The ASUS Ascent GX10 is purpose-built to accelerate AI-driven workloads across diverse user groups — from professional developers and academic researchers to data scientists and students. Whether you're advancing data science projects, building edge AI applications like robotics, computer vision, or Vision-Language Models (VLMs), or engaged in prototyping, fine-tuning, and inference tasks, the GX10 delivers the performance and flexibility needed to push boundaries and turn ideas into reality.





Inspired by AI Ocean Wave

Stellar Grey

Precision-etched dark finish

Anodized Metal

Robust and premium feel

51 mm
height

1.6 kg
light

240W Adapter
cTPD 140W

ASUS Ascent GX10

Compact, Powerful, and Scalable

The ASUS Ascent GX10 AI Supercomputer, powered by the state-of-the-art NVIDIA® GB10 Grace Blackwell Superchip and Blackwell GPU, delivers petaflop-scale computing performance for developers, AI researchers, and data scientists. Its compact design ensures seamless integration and deployment, enabling high-performance local AI development with advanced tools and NVIDIA® ConnectX®-7 connectivity. This powerful system enhances your AI capabilities while supporting cutting-edge, customized solutions.

NVIDIA® GB10 Grace Blackwell Superchip

NVIDIA® Blackwell GPU

128 GB Unified memory

NVIDIA® NVLink™-C2C

Deliver a cohesive CPU+GPU memory model with five times the bandwidth of PCIe Gen 5

NVIDIA® ConnectX®-7

Allows two GX10 systems to be linked for handling even larger models

1000 TOPS

NVIDIA® DGX Base OS

Compact Size

150 x 150 x 51mm

NVIDIA® AI Enterprise Software Suite

Optimized Cooling design

AI Development Environment

Includes NVIDIA NIM™ and Blueprints. Supports Pytorch, Jupyter, Ollama for prototyping and inference.

CPU

Unleash AI Power

Step into the future of breakthrough performance with the ASUS Ascent GX10, powered by the revolutionary NVIDIA® GB10 Grace Blackwell Superchip. Unleashing up to 1,000 TOPS, it crushes AI workloads that once required data centers. With a fused CPU-GPU architecture and lightning-fast memory, real-time inferencing and massive model training become seamless. From generative design to deep learning, every process flows with purpose. Build boldly—because limits no longer apply.

NVIDIA® GB10
Grace Blackwell Superchip
processor

20 core Arm,
10 Cortex-X925+ **10** Cortex-A725 Arm

Up to
4 TB of NVMe storage

Connected by NVIDIA® NVLink™-C2C

GPU

Next-Gen AI Language Development Powerhouse.

ASUS Ascent GX10 features the NVIDIA® Blackwell GPU with 5th Gen Tensor Cores and FP4, delivering up to 1,000 TOPS. Its 128GB unified memory efficiently handles large ML models, accelerating training and inference. Ideal for complex AI language models, ML workflows, and AI-assisted data analysis, the GX10 ensures smooth processing and rapid insights. NVIDIA AI software compatibility enables seamless scaling from local to enterprise deployment, making it a versatile solution for AI professionals.

NVIDIA®

Blackwell GPU

graphics

5th gen Tensor Cores

Up to

128 GB

Unified Memory

Up to

1000

total TOPS using FP4

Up to

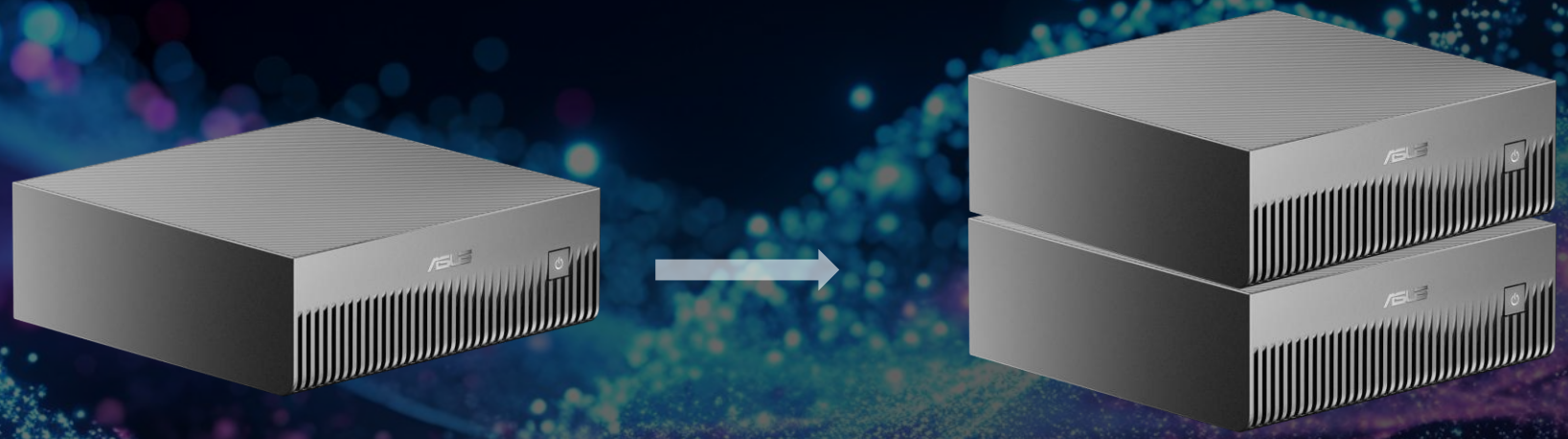
200B parameter capacity

AI model development and inference

AI Elevated

Double the Power with Two ASUS Ascent GX10 Units

Stack two ASUS Ascent GX10 units to instantly double your AI performance — from 1,000 to 2,000 AI TOPS, 128GB to 256GB Unified Memory, and from 200B to 405B parameter support, all with up to 8TB of storage. Perfect for scaling demanding AI workloads with ease.



1,000 AI TOPS
128GB Unified Memory
Up to 200 Billion parameters
Up to 4TB Storage

2,000 AI TOPS
256GB Unified Memory
Up to **405** Billion parameters
Up to **8TB** Storage

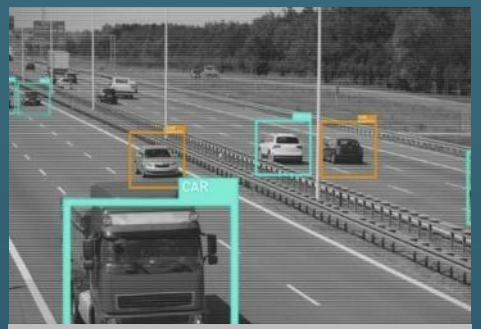
QSFP cable
0.4m / Sold Separately.

Nvidia Jetson Series

ASUS IoT

Focus Market


Retail


Video Analysis


Logistics


Agriculture


Healthcare


Construction

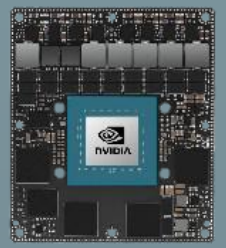
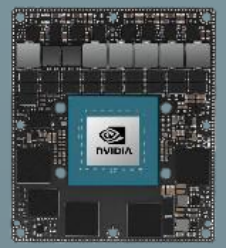

Robotics


Smart City


Manufacturing

ASUS IoT

NVIDIA Jetson Modules Roadmap

AGX Orin 32GB	AGX Orin 64GB	Jetson Thor T4000	Jetson Thor T5000
200 TOPs (INT8)	275 TOPs (INT8)	1200 TFLOPS (FP4)	2070 TFLOPS (FP4)
			
15 - 40W	15 - 60W	40 – 70W	40 – 130W
100 x 87mm	100 x 87mm	100 x 87mm	100 x 87mm
PERFORMANCE		SUPERCOMPUTER	

Orin Nano 4GB	Orin Nano 8GB	Orin NX 8GB	Orin NX 16GB
34 TOPs (INT8)	67 TOPs (INT8)	117 TOPs (INT8)	157 TOPs (INT8)
			
7 - 25W	7 - 25W	10 - 40W	10 - 40W
45 x 70mm	45 x 70mm	45 x 70mm	45 x 70mm
ENTRY		MAINSTREAM	

*Super Mode

ASUS IoT

PE1100N V2

Powered by Orin Nano/NX

MP 2026 Q1

Super Mode Enabled

- Boosts next-gen Gen AI performance by up to 1.7x
- Active cooling system ensures sustained turbo performance

High Expandability and Connectivity

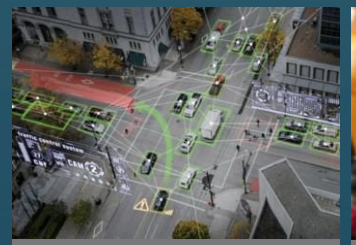
- 3 x M.2 slot for expansion, Wi-Fi, SSD, 4G/5G, etc.
- 2 x RS232/422/485, 1 x CAN bus, and 4 x DI, 4 x DO
- 1 x AEM for option, OOB, Dual LAN, etc.

Engineered for Harsh Environments

- Withstand harsh environment and tested by MIL-STD-810H
- Wide range of operating temperature up to 60°C

With FAN
(40W, NX Super)

Without FAN
(25W, Nano Super, NX)



Smart Transportation

Smart Manufacturing

Smart Parking

ASUS IoT

PE1102N Powered by Orin Nano/NX

MP 2026 Q1

Rugged Edge Computing

- Rugged fanless design
- Wide operating temperature from -20°C - 60°C
- Withstand harsh environment and tested by MIL-STD-810H

Flexible Modular Expansion

- 3 x M.2 slot for expansion, Wi-Fi, SSD, 4G/5G, etc.
- 2 x RS232/422/485, 1 x CAN bus, and 4 x DI, 4 x DO
- 1 x Versatile I/O Port with optional AEM extension
  - *4 x GMSL2.0/1.0 with FAKRA connectors
  - *1 x Remote management module

Power for Mobility

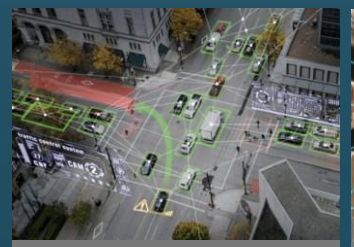
- DC 12-36V wide range of power input
- Ignition control specifically designed for in-vehicle applications

Front

FAKRA
4 x GMSL 2.0
(AEM optional)

Back

DB25 connector
RS-232/422/485
& CAN-Bus


Smart Transportation


Smart Logistics


Smart Surveillance

ASUS IoT

PE1103N Powered by Orin Nano/NX

MP 2026 Q1

Built to Last at the Edge

- Fanless with wide operating temperature from -20°C - 60°C
- MIL-STD 810H, military grade shock & vibration
- Vehicle-ready ignition control with DC 9-36V wide range of power input

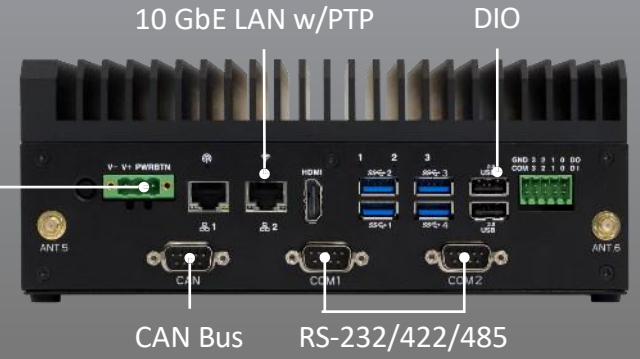
Comprehensive Connectivity & Expansion

- 3 x M.2 slot for expansion, Wi-Fi, SSD, 4G/5G, etc.
- 2 x RS232/422/485, 1 x CAN bus, and 4 x DI/DO
- 2 x Versatile I/O Port with optional AEM extension
  - * Up to 8 x GMSL2.0/1.0 with FAKRA connectors
  - * 1 x Remote management module

Accurate Timing for Precise Coordination

- 1 x 10GbE LAN Port with PTP & 1GbE LAN Port
- Built-in GNSS supports concurrent reception (GPS, Galileo, GLONASS, BeiDou)
- Supports optional high-precision Time Sync and Frame Out for cameras, LiDARs, radars, and IMUs

Front



Back


Smart Agriculture


Smart Mining


Smart Manufacturing

ASUS IoT

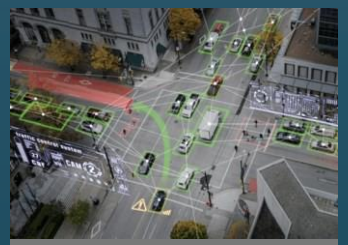
PE2100N Powered by AGX Orin

Excellent AI Performance

- Fanless design for maintenance-free operation
- Wide operating temperature range from -25°C - 55°C
- Wide power input DC 12-36V for industrial environments
- MIL-STD 810H, military grade shock & vibration

Rich Connectivity & Connectivity

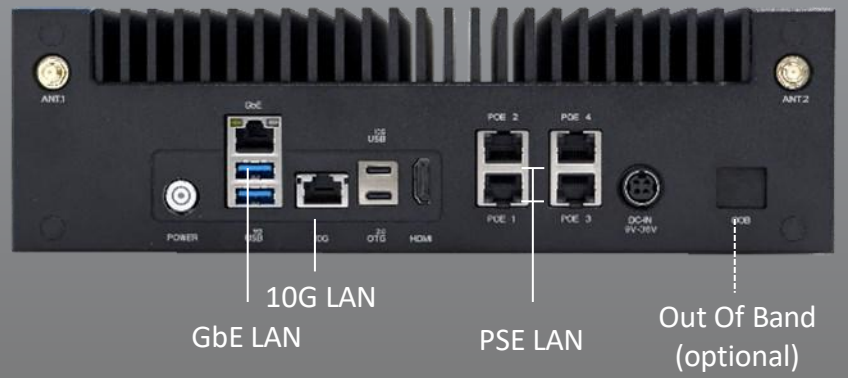
- 3 x M.2 slots for Wi-Fi, SSD, 4G/5G
- 1 x 10 GbE + 1 x GbE + 4 x PoE (IEEE 802.3af)
- 2 x COM ports (RS-232/422/485), CAN bus, GPIO, OOB


Smart Transportation


Smart Manufacturing


Visual Analysis

Front



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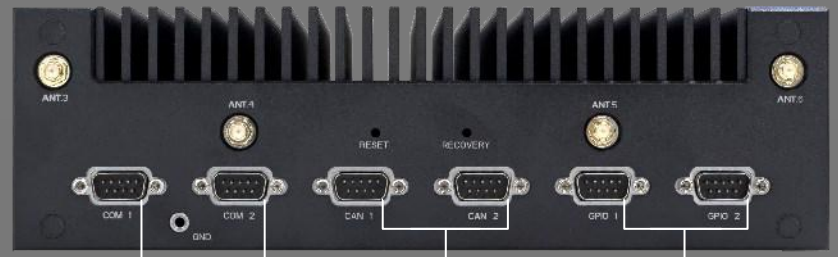


ASUS IoT

PE3000N Powered by Thor T5000/T4000

Sample 2026 Feb.
MP 2026 1H

Extreme AI Performance

- Next-Gen Edge AI Supercomputer with NVIDIA Jetson Thor T5000/T4000 (up to 2,070 FP4 TFLOPS)
- Delivers over 7.5x higher AI compute and 3.5x better power efficiency than AGX Orin

High Expandability Design with a Modular Layer

- Rugged, Low-profile and scalable chassis design
- Delivers project-specific I/O configurations without changing core system
- Optional: M12 w/ POE, GMSL, GPS, PPS, DIO, COM, CAN, MIPI CSI, QSFP28 (4x25GbE), Jetson Holoscan Bridge, OOB, 2nd M.2 M key, etc.

Power Design & Environments

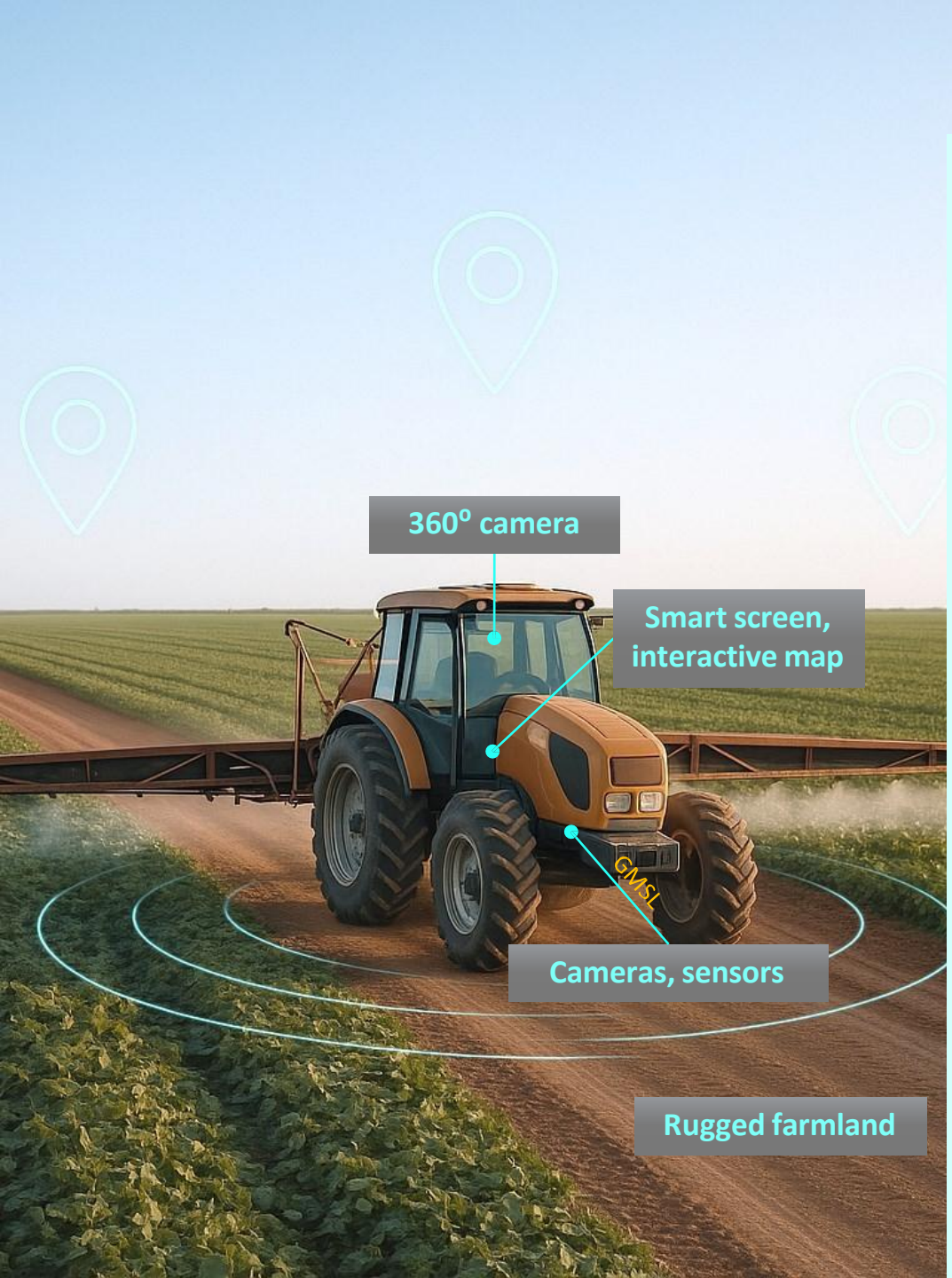
- DC 12-60V wide range of power input with ignition control
- MIL-STD 810H, military grade shock & vibration
- Wide range of operating temperature up to 60°C


Robotics


Humanoid


Off-road autonomy

ASUS IoT



Smart Agriculture

Transforming traditional farming into data-driven, automated, and intelligent operations

Needs

- High system reliability and durability
- Real-time decision making
- Multi-sensor integration challenges
- Integration with engine’s power system
- Limited connectivity & maintenance difficulty

ASUS

- Rugged design with MIL-STD 810H certified
- Build-in ignition for vehicle with wide range of voltage
- High-precision sensor fusion enabled by PTP
- GMSL cameras enable low-latency data transmission, while GNSS provides pinpoint positioning
- OOB management streamlines centralized control, monitoring, remote access, and security for multiple devices

PE1102N

GMSL, Ignition

PE1103N

GMSL, Ignition

ASUS IoT

Smart Logistic Management

Utilizing AMRs to enhance efficiency & automation in modern logistics operations

Needs

- Real-time decision making
- Multi-sensor integration challenges
- Navigation in complex layouts
- Space-constrained, low-power-consumption design
- Maintenance difficulty

ASUS

- High-precision sensor fusion enabled by PTP
- Supports up to eight GMSL cameras for low-latency data transmission
- Compact design with excellent thermal performance per watt
- OOB management streamlines centralized control, monitoring, remote access to support large-scale fleet management

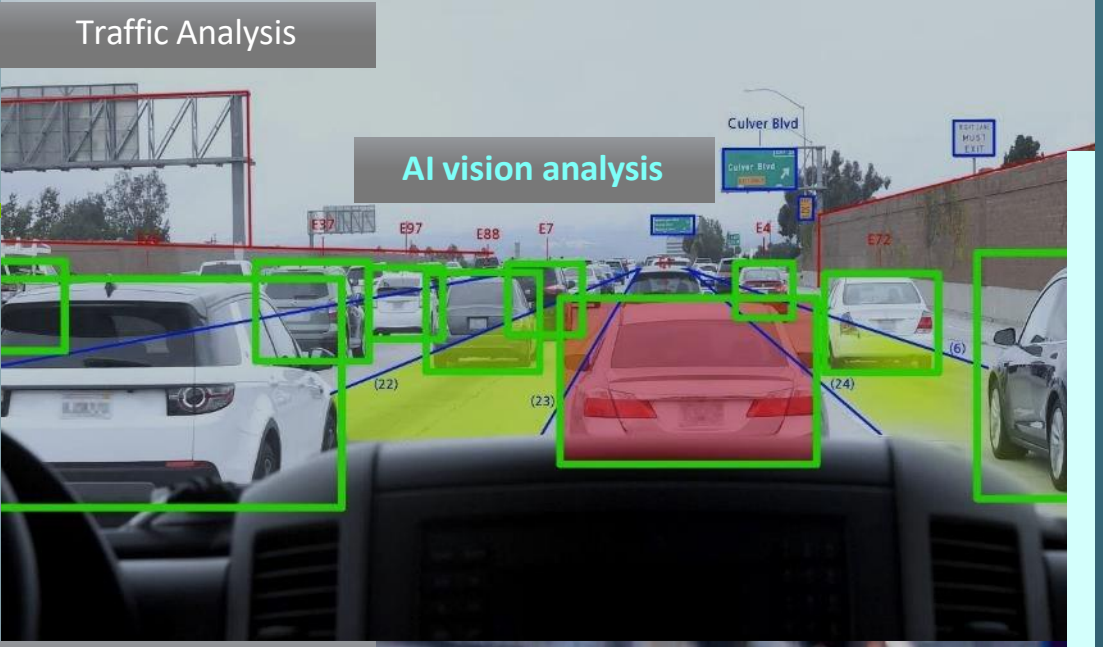
PE1102N

GMSL, Ignition

PE1103N

GMSL, Ignition

ASUS IoT



Smart Transportation

Integrating AI-driven traffic monitoring to enhance urban mobility & ease enforcement workloads

Needs

- Real-time monitoring and decision making
- High system reliability, durability, and reliable connectivity
- Integration with engine's power system
- Multiple devices management
- Power efficiency & limited space

ASUS

- Supports up to eight GMSL cameras for low-latency data transmission
- Compact design with excellent thermal performance per watt
- Build-in ignition for vehicle with wide range of voltage
- OOB management streamlines centralized control, monitoring, remote access to support large-scale fleet management

PE1100N

Flexble I/O, up to
4 x Lan & 5 x USB

PE1102N

GMSL, Ignition

ASUS IoT

Public Safety

Leveraging edge AI for real-time data processing to improve accuracy & efficiency in smart surveillance

Needs

- Real-time monitoring and decision making
- High system reliability and durability
- High-accuracy recognition
- Multiple cameras/sensors inputs & rugged I/O connectors for outdoor use
- Scalability and maintenance

ASUS

- Supports up to four PoE cameras for or flexible placement and real-time monitoring
- Compact design with excellent thermal performance per watt
- OOB management streamlines centralized control, monitoring, remote access to support large-scale fleet management

PE1100N

Flexble I/O, up to 4 x Lan & 5 x USB

PE2100N

275 TOPS, up to 6 IP Cam, up to 4 POE, OOB

ASUS IoT

NUC 15 Pro

Best Compact Choice for the AI-Driven Future.

IN SEARCH OF INCREDIBLE

Target Market

Built for 2025 New AI Business

Artificial Intelligence Firms

The NUC 15 Pro is ideal for AI development, offering the power needed for training machine learning models and complex data analysis.

Remote Work Solutions Providers

With its compact design and advanced connectivity, the NUC 15 Pro is perfect for organizations facilitating remote work, allowing seamless collaboration for distributed teams.

IoT and Edge Computing

Built for IoT and edge computing, the NUC 15 Pro offers the flexibility and scalability for diverse IoT and Edge application deployments.

Media and Service Industries

Designed for media and service industries, the NUC 15 Pro supports efficient digital content creation, data visualization, and multi-display setups ideal for enhancing customer engagement and operational productivity in service-oriented environments.

Amazing Compact Size

The ASUS NUC 15 Pro features a compact design with dimensions of just 117 mm x 112 mm x 37 mm, making it incredibly lightweight and portable. Its small footprint is comparable to that of a passport, which typically measures 125 mm x 88 mm, allowing the NUC to fit seamlessly into any workspace or travel bag. This sleek form factor ensures that you can easily position the NUC 15 Pro in tight spaces while enjoying powerful performance, making it the ideal solution for businesses seeking efficiency without sacrificing valuable real estate.

Regular Passport
OPEN size
125mm x 176mm

Regular Passport
COVER size
125 mm x 88 mm

NUC 15 PRO Width/Length

117 x 112 mm

2 US Quarters
48mm

NUC 15 PRO Height

37mm

Why **NUC 15 Pro?**

Best Compact Choice for the AI-Driven Future.

Introducing the ASUS NUC 15 Pro—where intelligent design meets unparalleled performance. Its compact form factor is engineered for versatility, making it ideal for a variety of development scenarios, from AI model training to data visualization. Powered by the latest Gen Intel® Core™ Ultra processors, DDR5 6400 MHz memory, and Intel® Arc GPU, it delivers exceptional speed and efficiency. Experience lightning-fast connectivity and seamless collaboration with cutting-edge Wi-Fi 7. Elevate your workflow and adapt to any environment with the NUC 15 Pro—your compact powerhouse for innovation.

Powerful Platform with
The latest Intel® Processer

Intel® Core™ Ultra 7 265H

Ultra Series 2 - Ultra 7, Ultra 5, Ultra 3

DDR5

Up to 96 GB 6400 MHz

Windows 11 Pro & Copilot

reducing task-switching time by up to 30% compared to Windows 10

Up To **99**
Platform TOPS
AI-Optimized

easy-to-upgrade
Tool-less chassis

Intel®
Wi-Fi 7

Download a 15GB file in just 25 seconds!

Bluetooth 5.4

speeds of up to 2 Mbps, a 100% increase over Bluetooth 5.3's 1 Mbps

Quad Display

Dual HDMI 2.1 TMDS Compatible (4K@60Hz)

Intel vPro®

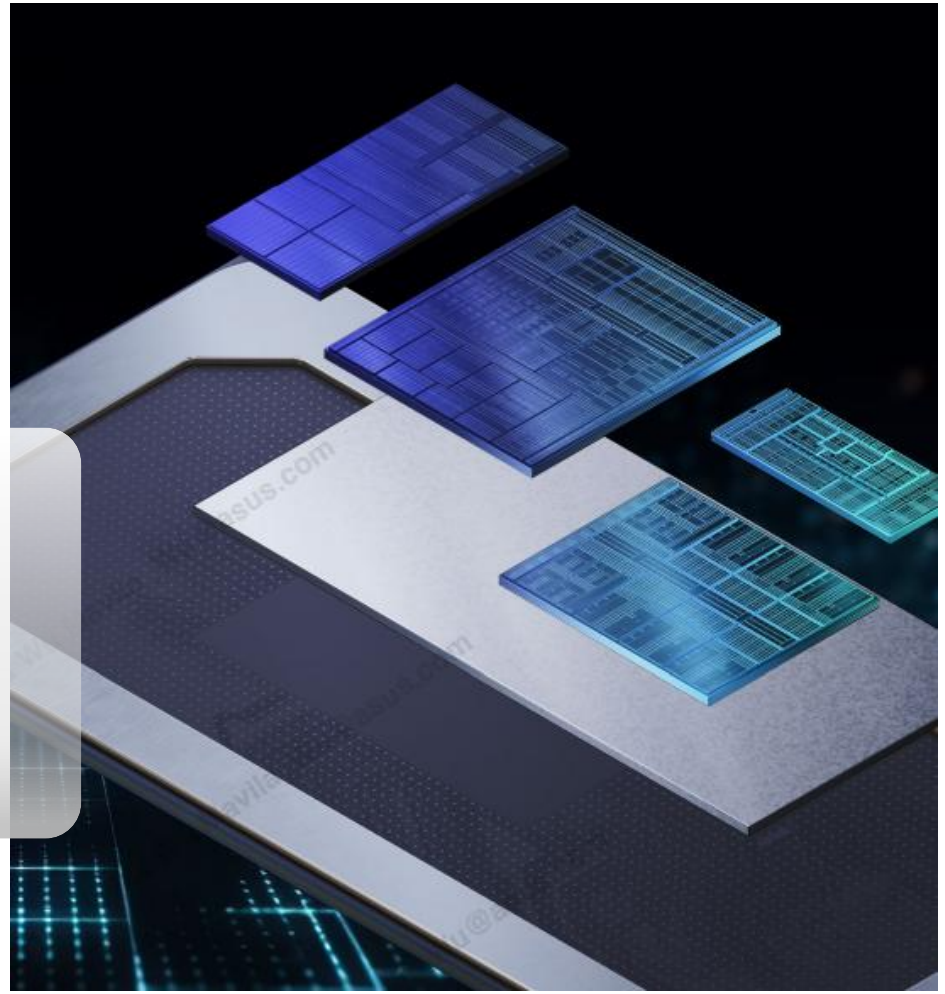
for enhanced security, protecting data from cyber threats.

Introducing Intel® latest gen CPU Arrow Lake

The Next Generation of Performance

Arrow Lake – H processors mark Intel's next-generation CPU lineup, using a 2nm process node architecture (Intel 20A), a significant improvement over the 7nm process in the 14th Gen chips.

The integrated graphics core count in Arrow Lake-H is twice that of Arrow Lake-S, featuring 2 Render Slices that contain 8 Xe cores, totaling 128 vector engines and 8 ray-tracing units. Notably, these 128 vector engines are also equipped with an equal number of Intel XMX (Xe Matrix Extensions), delivering enhanced AI efficiency. The estimated compute performance is expected to reach 77 TOPs (Tera Operations Per Second).



New NPU for AI & Elevating Xe Graphics

Up to **99** **Platform TOPS**

GPU
Up to **77** TOPS
XMX & DP4a

NPU
Up to **13** TOPS
Dense vector & matrix math

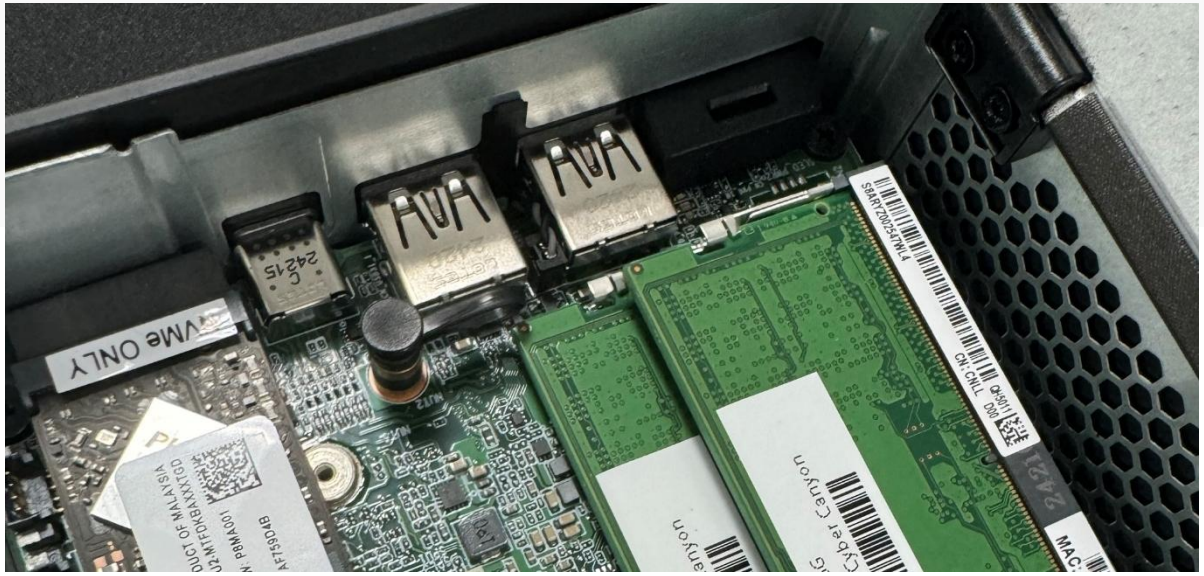
CPU
Up to **9** TOPS
VNNI & AVX

Expanded Versatility

The NUC 15 Pro product team has carefully listened to customer feedback, and we've added Dual SSD and Dual LAN expansion options to better meet all your needs.

NUC 15 Pro - Internal Headers

- Add PCIe FPC Header & RS232 Serial header for additional integration flexibility for L6 & Board SKUs
  - Front panel header (with Vcc5/1A, 5Vsby2A, 3.3Vsby/1A)
  - 1x internal power header
  - 2x internal USB 2.0 headers
  - PCIe FPC Header
  - 1x RS232 Serial header



NUC 15 Pro Tall Expansion Accessories

- Product Code: NUCIOAES0CR
  - 2nd M.2 222x80 SSD Expansion Accessory
- Product Code: NUCIOALA0CR
  - 2nd 2.5GbE LAN Expansion Accessory
- Product Code: NUCIOALASCR
  - 2nd 2.5GbE LAN Expansion w/ RS232 Serial Port Accessory

NUCIOALA0CR
2nd LAN Ethernet Port

NUCIOALASCR
2nd LAN Ethernet with Serial Port

Thank You !

ASUS IoT