

Rugged Edge AI Powering Real-Time Intelligence



ASUS IoT PE3100G Rugged Edge AI Computer

High-Performance Edge Computer with MXM GPU, Rich I/O, and Wide-Temp

ASUS IoT PE3100G is a rugged edge AI computer designed for high-performance, GPU-driven workloads in industrial environments. Equipped with up to a 13th Generation Intel® Core™ i7 Processors and MXM GPU modules, it accelerates AI inference, image processing, and real-time analytics for applications such as intelligent video analytics, autonomous vehicles, AMR/AGV, smart agriculture, and factory automation.

The system supports multiple display outputs, dual LAN with PoE+, and flexible expansion modules, ensuring versatile connectivity for diverse IoT deployments. Built to endure harsh conditions, it meets MIL-STD-810H standards, operates across a wide voltage (8–48V) and temperature range (-20°C to 60°C), and maintains full GPU performance without throttling. Its patented thermal design and structural stability optimize reliability and minimize downtime, providing a competitive advantage over traditional edge AI systems.

ASUS × **intel ai**

***Rugged Edge AI
Computer with
13th Generation
Intel® Core™ i7
Processors, MXM
GPU, MIL-STD-
810H, and versatile
I/O for industrial AI
workloads***

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



**Intel® Core™
Processors**



**Intel® Arc™
Graphics**



**Intel® Ethernet
Controller**



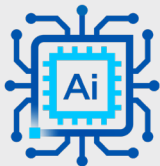
OpenVINO™

Key Features

Empowered by Intel.



Rugged Edge
AI Computer



High-
Performance
AI Inference



Real-Time
Image Analytics



Versatile
Connectivity
with Dual LAN

ASUS PE3100G



Product Specifications

CPU	13th Gen Intel® Core™ processor 45W CPU, up to 64GB DDR5 4800 SDRAM
Graphics	Intel® Iris® X ^e Graphics eligible
Memory	2x SO-DIMM, up to 64GB DDR5 SDRAM (two SODIMM slots)
Storage	2x hot-swappable SATA port for 2.5" HDD/ SSD installation, supporting RAID 0/1 1x M.2 2280 M key NVMe socket (PCIe Gen4 x4) for NVMe SSD
Wireless Network	1x M.2 2230 E-key for selected WiFi module (WiFi5/ WiFi6) 1x M.2 3042/3052 B-Key with SIM slot support 5G/ 4G module
LAN	1x Intel® Ethernet Connection I219-LM (1 GbE), RJ45 with screw-lock; 3x Intel® Ethernet Controller I226-IT (2.5 GbE), RJ45 with screw-lock
Operating / Storage Temp.	-20 °C to 60 °C / -40 °C to 85 °C
Dimension (W x D x H)	240mm x 230mm x 125.7mm w/o external fan kit; 240mm x 230mm x 180mm w/ external fan kit
Weight	8.2 kg w/o external Fan Kit; 8.7 kg w/ external fan kit
OS	Windows® 11 IoT Enterprise (64-bit) / Windows® 10 IoT Enterprise (64-bit) / Linux by Project Support

Learn More

[ASUS PE31000G](#)

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