Industrial Edge AI with Intel® Core™ Ultra Series 3



RUC-2000G

ASUS x intel.

A 19-inch 2U Rugged Rack-Edge AI Computer for Industrial Applications

ASUS RUC-2000G is an edge AI GPU computer supporting 200W GPUs with PCIe® 5.0. This enables real-time inference for complex workloads. It features an Intel® Core™ Ultra Series 3 processor, up to 96GB DDR5 memory, and multiple M.2 slots for expanded storage and connectivity, and rich I/O, including 10GbE and 5 2.5GbE, 8-channel GMSL2 ports, and ignition power control.

As an industry 2U 19-inch rackmount edge AI computer, it supports multiple standardized rack configurations, including full-rack (19-inch), half-rack (9.5-inch), and 2U-height designs, ensuring seamless integration into existing industrial deployments.

RUC-2000G is engineered for perception AI and computer vision applications in the most demanding industrial environments. Built to thrive where others fail, it delivers unwavering performance in extreme temperatures, from -25°C to 60°C, and boasts MIL-STD-810H certification for exceptional ruggedness. Its 8-48V wide-range DC-in with ignition control ensures reliable power delivery, making it the ideal solution for mission-critical deployments.

***Rugged modular design with multiple I/O & 200W GPU support for* edge AI computing applications**

Intel Products and Technologies

Accelerating AI and Analytics at the Edge

Intel® Core™ Ultra Processors

Intel® Arc™ Graphics

Intel® Iris® Xᵉ Graphics

OpenVINO™ Toolkit

Key Features

Empowered by Intel.

- Rugged Edge AI Computing
- PoE & GMSL2 I/O Support
- Dual SSD Trays, RAID O/1
- PCIe x16 for 200W GPUs

ASUS RUC-2000G





intel ai

Intel® AI Edge Systems

Product Specifications

CPU	Intel® Core™ Ultra 7 processor 356H
Graphics	Intel® integrated graphics 1 x PCIe® 5.0 slot for up to 200W GPU
Memory	2 x DDR5 SO-DIMM (up to 96GB)
Storage	1 x M.2 M-key for NVMe 2 x 2.5" Hot-swappable SSD trays
Wireless Network	WiFi, LTE, 5G support
LAN	1 x 10 GbE (RTL8127) 1 x 2.5 GbE (Intel® Ethernet Controller I226-IT) 4 x 2.5 GbE (Intel® i226-IT, IEEE 802.3 at, total 60w, optional)
Operating / Storage Temp.	-25°C ~ 60 °C / -40°C ~ 85 °C
Dimension (W x D x H)	440mm x 260mm x 85mm (side by side mode) 220mm x 260mm x 170mm (stack mode)
Weight	8.5kg
OS	Windows® 11 IoT Enterprise (64-bit) / Linux by Project support
I/O (Input/Output)	2 x RS-232/422/485 2 x CAN Bus 2.0B 4 x USB 3.2 Gen 2 (10Gbps) 2 x USB 2.0 2 x 4-ch GMSL2 (optional)

Learn More

ASUS RUC-2000G

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