

Compact Fanless Edge Computer for Industrial AI and IoT



ASUS IoT EBS-S500W Fanless Embedded Edge Computer

Rugged Intel® Core™ Ultra PC with DDR5 Memory Dual LAN and Multiple I/O

The ASUS IoT EBS-S500W is a compact fanless embedded computer powered by Intel® Core™ Ultra Processors (Series 1) - Intel® Core™ Ultra 7 Processor 165U and Intel® Core™ Ultra 5 Processor 135U - supporting up to 64 GB DDR5 memory for high-efficiency edge computing. Its fanless design ensures silent and reliable operation while maintaining optimal thermal performance.

Equipped with extensive I/O and expansion options—including 7 USB ports, 4 COM ports, HDMI and DisplayPort outputs, USB-C, and three M.2 slots for LTE/5G/Wi-Fi 6E/BT 5.2—the EBS-S500W supports a wide range of AIoT and industrial applications. With a wide input voltage (9–36V) and operation across -20°C to 60°C, it delivers adaptability and durability in challenging environments, making it ideal for smart factories, retail, and transportation edge solutions.

ASUS × intel ai

***Compact fanless
edge computer
with Intel® Core™
Ultra processors,
up to 64 GB DDR5,
rich I/O, and
rugged design for
AIoT and industrial
applications***

Intel Products and Technologies

Accelerating AI and Analytics at the Edge



Intel® Core™ Ultra
Processors

Key Features

Empowered by Intel.



Fanless
Compact
Design



Rich
Connectivity



High-Speed
DDR5 Memory



Wide Voltage
& Temperature
Range

ASUS EBS-S500W



Product Specifications

CPU	Intel® Core™ Ultra 7 processor 165U 15W 1.7 GHz-4.9 GHz; Intel® Core™ Ultra 5 processor 135U 15W 1.6 GHz-4.4 GHz
Graphics	Intel® Graphics
Memory	2 x SO DIMM, DDR5 5600 MHz, supports up to 64GB
Storage	1 x SATA Gen 3.0 supports 2.5" SSD
Wireless Network	1 x 2230 M.2 E key for WIFI 6E/BT 5.2 device (USB 2.0/ PCIe x1/ CNVi)
LAN	2 x 10/100/1000Mbps/2.5G, RJ45 (1 x Intel® Ethernet Connection I219-LM, 1 x Intel® Ethernet Controller I226-IT)
Operating / Storage Temp.	-20~60° / -40~85° C
Dimension (W x D x H)	186mm x 135mm x 82mm
Weight	1.88kg
OS	Windows 10 IoT Enterprise

Learn More

[ASUS EBS-S500W](#)

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