# 4U AI Ready Edge System



## **Advantech AIR-510**



# Optimized for Industrial AI with Fast Data Access, Wide Connectivity, and Intel-Powered Performance

The AIR-510 is a powerful 4U rackmount edge AI system engineered for industrial environments requiring high-throughput inference, automation, and intelligent decision-making. Built on 12/13/14th Gen Intel® Core™ processors, it leverages DDR5 memory and advanced compute architecture to deliver scalable performance for demanding AI workloads such as vision analytics, predictive maintenance, and smart infrastructure. With support for up to 8x 2.5" SSDs, triple PCIe expansion slots, and extensive I/O—including 12 USB ports, dual GbE LAN, and optional IPMI for remote management—the AIR-510 ensures fast data access and seamless integration with sensors and peripherals. Its rugged design supports wide temperature ranges and meets global safety standards, making it ideal for deployment in manufacturing, healthcare, and transportation. Combined with Intel's AI optimization tools, the AIR-510 empowers real-time edge intelligence with reliability, flexibility, and speed.

4UAIReady
Edge System
built for scalable
inference,
rugged
deployment,
and industrial
integration

#### Intel Products and Technologies

Accelerating Al and Analytics at the Edge





Intel® Arc™ Graphics



OpenVINO™ Toolkit

#### **Key Features**

Empowered by Intel.



Scalable Al Compute



Flexible I/O Options



Industrial-Grade Build



High-Speed Storage

#### **Advantech AIR-510**







### **Product Specifications**

CPU	12/13/14th Gen Intel® Core™ processors
Graphics	Intel® UHD Graphics 770/730/710 (depends on CPU model)
Memory	DDR5 up to 4400 MT/s, 192 GB (48GB per DIMM)
Storage	8x 2.5" SSD
Wireless Network	N/A
LAN	2 x GbE
Operating/Storage Temp.	0~40°C/-40~85°C
Dimension (W x D x H)	380mm × 176mm × 454.1mm
Weight	15.5 kg
OS	Windows 10/11 IoT, Ubuntu

#### **Learn More**

Advantech AIR-510

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