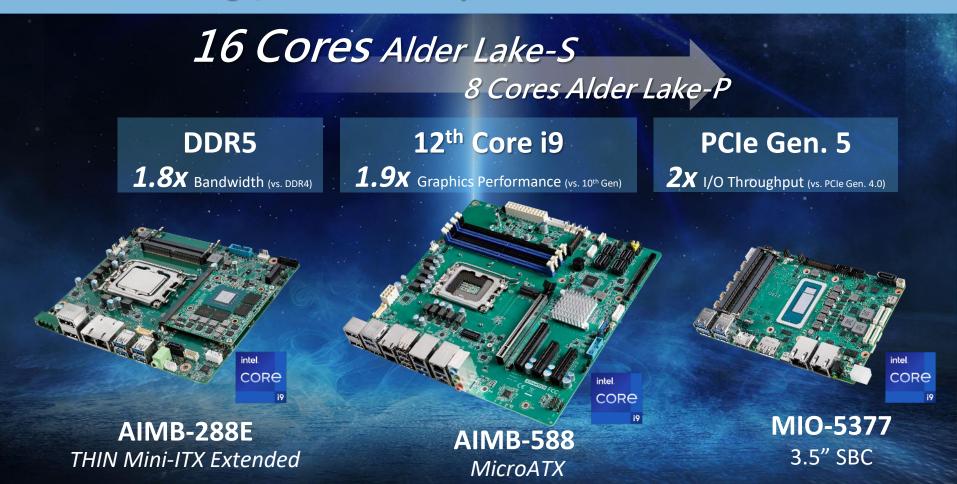


Intel 12th Gen. Core Processors Embedded Platforms

Selena Chiu & Johnny Liang, Advantech



Accelerating I/O Transition by Intel 12th Gen. Core Processors



Advantech IT/OT Total Security

Comprehensive cybersecurity solution to prevent attacks, stop damage and restore operation



Edge AI Suite

Instant User Experience & Fast Al DevOps



People/Pose Detection



Face Detection



Object Detection



Image Classification

Empower ADVANTECH Device at Edge AI

5 Times个

Intel CPU computing power

+AI Chips

High coverage support on more Al accelerators

5 Mins√

90% time reduced to build up settings

1 Click

Edge Al inference benchmark and demo

Game-changing Linux IoT Experience



Full-blown graphic UI OS, Rich application support



Light-weight command-line OS,
Optimized for IoT sensor devices

Certified

Each licensed hardware must pass Canonical certification process





>>> snapcraft

X86 & RISC

Secure

Tri-weekly Security Update to fix critical/embargo & regular CVEs with long-term support



ALGORITHM PLANDER SOFTWARE ENGINEERING TESTIN PROGRAMMING SPECIFICATION SOFTWARE

OPEN SOURCE

Upsell Hardware-only Customers

Expand to new Business Landscape

Target Applications



Al-Assisted Medical Imaging



Intel 12th Gen. Core

High Performance and Efficiency

PCIe Gen. 5 x16 slot

Latest throughput technology enable data analytics

DDR5 Memory

High bandwidth accelerate data delivery

Four Ethernet Ports

x3 2.5GbE and x1 GbE ports

Al Demo Utility and Remote Management

Advantech Edge Al Suite & WISE-DeviceOn

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ADVANTECH

GPU-Accelerated Edge Computing



Intel 12th Gen. Core

High performance and efficiency computing core

DDR5 Memory

High bandwidth accelerate data delivery

MXM Integrated

MXM integrated kit delivers Graphics Performance

Compact & THIN

All-in-One slim design simply deployment
*Dimension 190 x 170mm

Optimized Thermal Design

Future-proof for high computing workload

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ADVANTECH

More than Sufficient for Service KIOSK



12th Intel Gen. Core Desktop

Hybrid Architecture up to 16-Core (8P+8E)

Multiple & High-Quality Displays

eDP 4K@60/5K@120, Dual HDMI1.4 for Dual-Side

High-Speed Storage & Redundancy

Dual NVMe (Gen.4/Gen.5) w/ Intel VMD Support Reduce Maintenance Effort (NVMe RAID)

Advantech iManager Reliability

Out-of-Band Watchdog, Temperature, & Power
Manageability

OS Bundled & Remote Management

Window10 IoT Certified & WISE-DeviceOn

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ADVANTECH

Rugged Outdoor Robot Application-Oriented







12th Intel Gen. Core Mobile

Hybrid Architecture up to 12-Core under TDP= 28/15W

Huge Sensor I/O Coverage for Robot

4 UART, 3 I2C, 2 CANBus @ 1Mbps w/ Software APIs

Low Latency Connectivity

Readiness on WiFi6E & 5G Support & Modules

Rapid I/O for Machine Vision

2.5GbE, USB3.2 Type-C & Thunderbolt, PCIe Gen4 NVMe

Reliable Design for Various Scenes

-40~85 ℃ Op. Temp., IPC-A-610 Class3 Assembly

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