

Advantech Launches AIMB-242 Mini-ITX Featuring High Computing and Graphic Performance

Built with new Xeon and 6th generation Intel® Core™ mobile processors

April 25, 2017, Munich –Advantech, a leading embedded computing solution provider, today announced the release of its new high-end industrial Mini-ITX motherboard line. [AIMB-242](#) is based on the Intel® QM170/CM236 chipset and the latest 6th generation Intel® Core™ i & Xeon E3 processors, supporting non-ECC & ECC memory capacities (only for WG2 sku) up to 32GB. AIMB-242 uses DDR4 2133MHz memory and comes bundled with Advantech’s value-added [WISE-PaaS/RMM](#) software. Providing powerful CPU computing and high graphic performance with enhanced reliability, [AIMB-242](#) is an ideal solution for high-end applications such as medical devices, media, gaming, and testing equipment.

Abundant High-Speed I/O Connectivity for Flexible Application

[AIMB-242](#) Mini-ITX comes with multiple high-speed I/O connectivity including: dual GbE LAN ports (Intel I219LM + I211AT), 8 x USB 3.0, 1 x USB 2.0, and 2 x SATAIII. In addition, it offers abundant expansion slots including 1 x PCIe x16, 1 x M.2 (B key for SSD & 3G/4G), 1 x full-size MiniPCIe (with mSATA support) and 1 x half-size MiniPCIe—for modular add-on cards. It also supports 8-bit digital programmable I/O, a dual channel 6W audio amplifier and 2 x COM (1 RS-232 & 1 RS-232/422/485 via BIOS selection). Users who wish to connect to devices without additional external power supplies, and those needing reliable data transfers over long distances will benefit. These features make [AIMB-242](#) a perfect fit for a wide range of embedded applications.

Excellent Graphics for Triple Displays and Strict ESD Protection & Certification

Compared with the previous platform, there is a 10% additional CPU performance and up to 50% better 3D graphics. [AIMB-242](#) supports quad/dual core processors and integrates powerful GT4e (with Iris Pro™ graphics support) only for WG2 sku) & GT2 graphics, delivering blazing-fast media processing. For display options, [AIMB-242](#) offers two DP++, one HDMI 2.0 port, and a dual-channel LVDs(eDP) port for triple/dual displays with 4K2K support for DP/HDMI/eDP, which is ideal for those applications such as medical ultrasound or gaming applications which require high graphics performance and high image resolution output.

In addition, [AIMB-242](#) is designed to have enhanced ESD protection which passes ElectroStatic Discharge (ESD) level 4 (contact 8kv and air 15kv) tests. ESD level 4 design offers better protection in sensitive environments, which is crucial for high end medical or healthcare applications.

Built-in Intelligent Remote Management and Value-Added Software Support

[AIMB-242](#) Mini-ITX bundles with Advantech’s exclusive IoT [WISE-PaaS/RMM](#) software, which is a smart software that constantly monitors the health of multiple devices and sends out alarm notifications via e-mails and SMS messages if faults occur. It also provides remote device management and system recovery powered by Acronis, and system protection powered by McAfee to ensure totally reliable operation.

AIMB-242 Features

- | Supports latest 6th generation Intel® Xeon, Core™ i processors.
- | Supports dual channel DDR4-2133 non-ECC/ECC 260-pin SODIMM sockets up to 32 GB (ECC for WG2 sku only).
- | DirectX 12, OpenGL 4.x, OpenCL 2.x graphics optimization.
- | Supports triple displays: HDMI2.0, DisplayPort1.2, LVDS (eDP).
- | Rich I/O & expansion options: 8 x USB 3.0, 1 x USB 2.0, 2 x SATAIII, 8-bit GPIO, 1 PCIe x16, 1 x F/S Mini PCIe socket (mSATA supported), 1 x H/S MiniPCIe socket, 1 x M.2-B key for SSD storage or 3G/4G, and 2 x COM ports (COM1 supports 5v/12v by jumper selection, COM2 supports RS-232/422/485 function via BIOS selection).
- | ESD level 4 support.
- | Supports Advantech’s software APIs.

AIMB-242 Mini-ITX is available now, for more information, please contact your Advantech local sales office or visit the website.

About Embedded-IoT Group

As a leader in the embedded market, Advantech Embedded-IoT Group not only delivers a wide range of embedded design-in services, but also develops a series of integrated IoT solutions and services to assist customers approaching the IoT market wanting minimal uncertainty and risk. Advantech Integrated IoT solutions include sensor nodes, gateways, and WISE-PaaS IoT software platforms. [Embedded-IoT.advantech.com](#)

About Advantech

Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive

system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Our mission is to enable an intelligent planet with Automation and Embedded Computing products and solutions that empower the development of smarter working and living. With Advantech, there is no limit to the applications and innovations our products make possible. (Corporate Website: www.advantech.eu).