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High Expandability AIMB-585 Micro-ATX
with 6th Generation Intel® Core i Processors

July 14, 2016 – Advantech, a leading embedded computing solution provider introduces AIMB-585, a new industrial-grade Micro-ATX motherboard based on the Intel® Q170/C236/H110 chipset supporting the latest 6th generation Intel® Core™ I /Pentium/Celeron and E3 Xeon processor. Combining high computing and graphic performance with rigorous reliability (ESD level 4 protection) and multiple expansion options, AIMB-585 is an ideal platform for a multitude of applications like medical equipment, surveillance, gaming machines, workstations and much more. Bundled with Advantech's own WISE-PaaS/RMM software suite that offers remote management and security features, the smart software empowers IoT application development from the edge to the cloud.

Highly Expandability I/O Connectivity

AIMB-585 is equipped with multiple high speed I/O and reliable connectivity including: 12 x USB 3.0, 2 x USB 2.0, 4 x SATAIII, 1 x PCIe x16 or 2 x PCIe x8, 1 x PCIe x4, 1 x PCIe x1, 1 x MiniPCIe (F/S x 1) and support for mSATA. It also supports 16-bit digital programmable I/O, 6 x COM ports (1 x RS-232/422/485 configurable) and 6W audio amplifier (6W-2ch). AIMB-585 also comes with dual Gigabit Ethernet ports (Intel I219LM + I211AT) delivering up to 1000 Mbps of bandwidth for network-intensive applications. All this high speed connectivity is packed into a Micro-ATX form factor which makes AIMB-585 totally fit for high-end applications.

Enhanced Reliable & Compatible Design

AIMB-585 has a maximum of 4 PCI express expansion slots, and one of compelling feature is its PCIe x16 auto-split design. The bandwidth of the PCIex16 slot can be split into 2 PCIe x8 bandwidth automatically, if a PCIe x8 external card is installed in the x8 slot (if the customer only installs one x16 card in the x16 slot, it will offer x16 bandwidth accordingly). This empowering design provides more flexibility for different applications. AIMB-585 uses one external USB controller for two independent USB 3.0 ports onboard, so AIMB-585 can help customers separate USB ports for administrator and non-administrator use to ensure USB

devices will not be crashed by other devices.

Excellent Graphics Performance and Strict ESD Protection & Certification

With advanced HD graphics performance, AIMB-585 Micro-ATX motherboard integrates Intel HD Graphics with DX11.1, OpenCL1.2 and OpenGL4.0 to deliver enhanced graphics performance. AIMB-585 supports three independent displays, either in clone mode or extended mode using VGA, HDMI, DisplayPort1.2, eDP and DVI-D with high 4K2K resolution for HDMI, Displayport1.2 and eDP ports. With stunning graphics and image display, AIMB-585 is ideal for gaming and medical applications. In addition, AIMB-585 uses an enhanced ESD protection design that passes electrostatic discharge (ESD) level 4 (contact 8kv and air 15kv) testing. For high end applications, for example for medical, ESD level protection is an important system feature in sensitive environments.

AIMB-585 comes bundled with Advantech WISE-PaaS/RMM which provides remote device management and system recovery powered by Acronis, and system protection powered by McAfee; allowing users to easily monitor, configure, control, and even recover multiple systems through a single console from any remote site.

AIMB-585 Features

- Supports the latest 6th generation Intel® E3 Xeon, Core™ i / Pentium/ Celeron processors
- Supports dual channel DDR4 2133MHz 288-pin of non-ECC/ECC RAM up to 64 GB
- Intel® Gfx supports DX11.1, OpenCL 2.1, OpenGL 5.0
- Supports triple displays: VGA, eDP, HDMI (up to HDMI 2.0), DisplayPort1.2, DVI-D
- Rich I/O & expansion options: 12 x USB 3.0, 2 x USB 2.0, 4 x SATAIII ,6 x COM ports and 16-bit GPIO, 1 x PCIe x16 or 2 x PCIe x8, 1 x PCIe x4, 1 x PCIe x1, 1 x Mini PCIe sockets (F/S x 1x support mSATA)
- Up to 2 USB 3.0 controllers
- ESD support to level 4
- FCC/CB Class B Certificate
- Supports Advantech WISE-PaaS/RMM

AIMB-585 is available now, for more information, please contact an Advantech local sales office.

About Embedded Core Service
Advantech Embedded Core Services offers design-in oriented services. These streamlined solutions broadly integrate embedded boards, peripheral modules and software. This dedicated focus on Embedded Design-in services fulfills electronic engineering demands at their design-in phase, and brings benefits that shorten the design and integration cycle, minimizing uncertainty and risk. www.advantech.eu/EmbCore

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).