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Advantech Launches its First Mini-ITX Motherboard with Wide Range DC Power Input 12~24V Support

*June 28, 2016, Munich –*Advantech, a leading embedded computing solution provider, today announced the release of a high-end Mini-ITX motherboard with wide range 12~24V DC power input. AIMB-275 is based on the Intel® Q170 chipset and the latest 6th generation Intel® Core™ I processor, bundled with Advantech's own WISE-PaaS/RMM software suite that offers remote management and security features. Providing high computing and graphic performance with high reliability (such as ESD level 4 protection), AIMB-275 is an ideal platform for high performance applications in medical devices, testing equipment, gaming machines, automation and more. The blend of Advantech hardware and value added smart software now brings the benefits of cloud computing within reach of many embedded applications.

Rich & High-Speed I/O Connectivity for Boundary Device

AIMB-275 is designed with high connectivity for multiple high speed I/O including: 6 x USB 3.0, 4 x USB 2.0, 3 x SATAIII, 1 x PCIe x16 slot, 1 x F/S MiniPCIe expansion socket, and 1 x Next Generation Form Factor (NGFF)/ M.2 B key for SSD & 3G module installation. AIMB-275 also comes with dual PCI Express based Gigabit Ethernet ports (Intel I219LM + I211AT) delivering up to 1000 Mbps of bandwidth for network-intensive applications. AIMB-275 has two serial ports onboard, one RS-232 5V/12V (by jumper selection), and one RS-232/422/485 (via BIOS selection); ideal for users connecting devices without additional external power supply and needing reliable data transfers over a long distance. All this connectivity and high performance features are packed into a Mini-ITX form factor which makes AIMB-275 an excellent fit for a wide range of applications.

Wide Range DC Power Supports Triple Display with Excellent Graphics

AIMB-275 is designed for wide-range DC power source input (12V~24V) with a lockable terminal block type connector that is suitable for industrial automation fields, ensuring power cables stay securely connected, even in high vibration environments. With market demands

going more towards motherboards equipped with advanced HD graphics and support for multiple displays, AIMB-275 Mini-ITX motherboard integrates Intel HD Graphics with DirectX 12, OpenGL 4.x, and OpenCL 2.1 support to deliver greater graphics performance with improved 3D video.

In addition, AIMB-275 supports three independent displays, either in clone mode or extended mode using VGA, HDMI2.0, LVDS (eDP), and DisplayPort1.2 with high resolution 4K2K support up to 4096x2160 @60Hz (HDMI 2.0) which delivers stunning graphics and imaging, making AIMB-275 ideal for those applications which require powerful graphic capabilities.

WISE-PaaS/RMM for Remote Management and Security Support

AIMB-275 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-275 Features

- Supports the latest 6th generation Intel® Core™ i /Pentium/ Celeron processors
- Supports dual channel DDR4-2133 260-pin SODIMM sockets up to 32 GB
- DirectX 12, OpenGL 4.x, OpenCL 2.1 Graphics optimized for low power
- Supports triple displays: VGA, LVDS (eDP), HDMI2.0, DisplayPort1.2
- Rich I/O & expansion options: 6 x USB 3.0, 4 x USB 2.0, 3 x SATAIII, and 8-bit GPIO, 1 PCIe x16, 1 F/S Mini PCIe sockets (mSATA supported), 1 M.2-B key for SSD storage or 3G, 2 x COM ports (COM1 supports 5v/12v on pin9, COM2 supports RS-232/422/485 function via BIOS selection)
- Wide range DC power input 12~24V support
- ESD level 4 support
- Supports Advantech software APIs

AIMB-275 is available now, for more information, please contact your 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

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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).