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**Advantech ATX Motherboard AIMB-780 Supports New Intel® Core™ i7 and Xeon® Processors**

***Juli 2010*** – Advantech Co., Ltd., the embedded platform and integration services provider, today announced the introduction of the AIMB-780, a new industrial-grade ATX motherboard with an LGA 1156 socket supporting the latest Intel® Core™ i7/i5/i3/Xeon®/Pentium® processors. Intel 32nm Core i7 and Core i5 7xx series processors are quad core CPUs with integrated memory controllers. The 45 nm Intel Core i5 6xx and Core i3 series processors are dual core, featuring integrated graphicsand memory controllers, and Intel HD Graphics with DX10 support. AIMB-780 also supports Intel server-grade Xeon 34xx series processors withECC DDR3 support and is capable of SATA RAID 0, 1, 5, and 10 to ensure reliable storage and system protection for network-intensive applications.

**Rich Expandability and Performance**

The AIMB-780 comeswith high connectivity and expansion options including: one PCIe x16, one PCIe x4, one PCIe x1, four PCI expansion slots, four serial ports, fourteen USB 2.0 ports, and six SerialATA II 300 MB/s connectors. One of the serial ports supports RS232/422/485 with hardware auto-flow control to fulfill the demands of industrial applications, and dual PCI Express based Intel 82578DM and 82583V Gigabit Ethernet ports deliver up to 1000 Mbps of bandwidth for network-intensive applications.

 **Supports Intel Turbo Boost Technology with Core i7/i5 Processors**This feature improves performance by allowing processor cores to run at higher frequencies within the available thermal envelope. The Intel Turbo Boost Monitor application is a Microsoft Windows sidebar gadget that displays processor frequency when Intel Turbo Boost technology is active. Supported operating systems are Microsoft Windows 7, both 32-bit and 64-bit editions.

**Dual Display and** **Excellent Graphics Performance**

With the dual core i5 6xx and i3 series, the graphics engine is integrated into the processor. These two-chip solutions provide enhanced graphics performance compared to previous Intel platforms. The integrated graphics controller includes Intel Dynamic Video Memory Technology to support 1GB maximum shared memory when total system memory is 2 GB and above. Intel Clear Video Technology features:  
  
● MPEG2 Hardware Acceleration  
● WMV9/VC1 Hardware Acceleration  
● AVC Hardware Acceleration  
● ProcAmp  
● Advanced Pixel Adaptive De-interlacing  
● Sharpness Enhancement  
● De-noise Filter  
● High Quality Scaling  
● Film Mode Detection (3:2 pull-down)and Correction  
● Intel TV Wizard  
  
AIMB-780 is now available for shipment, with two different SKUs—the WG2 and QG2 SKUs support 3450 and Q57 chipsets respectively. The 3450 chipset is focused on the high-end workstation segment with Xeon processor, ECC memory and dual PCIe x 8 expansion slot support. The Q57 chipset is focused on mainstream scalable markets that feature Intel Core i7/i5/i3 processor support and single PCIe x16 expansion slot.

[Product Site](http://www.advantech.eu/products/AIMB-780/mod_1-DWE9J9.aspx) [Data Sheet](http://download.advantech.com/ProductFile/1-FQY3UY/AIMB-780_DS(06.18.10).pdf)

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**About Advantech –**Founded in 1983, Advantech delivers visionary and trustworthy industrial computing solutions that empower businesses. Advantech is a Premier Member of the Intel® Embedded and Communications Alliance, a community of embedded and communications developers and solution providers. We cooperate closely with solution partners to provide complete solutions for a wide array of applications in diverse industries, offering products and solutions in three business categories: Industrial Automation, Embedded ePlatform and eServices & Applied Computing. With more than 3,600 dedicated employees, Advantech operates an extensive support, sales and marketing network in 18 countries and 39 major cities to deliver fast time-to-market services to our worldwide customers. (Corporate Website: www.advantech.com).

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