Embedded Platforms Based on 2nd Generation Intel Core Processors

Advantech, an embedded platform and integration services provider, announces a new series of embedded boards based on the new 2nd Generation Intel Core i7 processor, featuring intelligent performance, power efficiency, and integrated Intel HD graphics with DX10.1 support. As a premier member of the Intel Embedded Alliance, Advantech is continuously developing and delivering cutting edge solutions based on the latest Intel platforms with proven high performance, reliability, longevity, and excellent design quality to help customers decrease time-to-market. The 2nd Generation Intel Core i7 processor-based platforms by Advantech range from Computer on Modules, Industrial Motherboards, Slot Single Boards to Embedded Systems. These high-end platforms provide targeted performance for multi-tasking and high-quality digital media solutions. They serve a wide range of applications that include telecom, factory automation, military, medical, and gaming.

Utilizing the 2nd Generation Intel Core i7 processor and Intel Q67 chipset, Advantech developed a new series of embedded platforms in various form factors that include Industrial Motherboards, PICMG 1.3 SHB, and ATX based server-grade motherboards. Advantech’s MicroATX motherboard—AIMB-581 (244 x 244 mm), ATX motherboard—AIMB-781 (304.8 x 244 mm), and the PICMG 1.3 SBC—PCE-5126 (338.58 x 126.39 mm) feature intelligent performance, power efficiency, and integrated Intel HD graphics, DX10.1 and OpenGL 3.0. All of these products provide superb all-round performance, expandability, and versatility for media-demanding applications. ASMB-220 is a sub-entry UP industrial server board targeting industrial control, automation equipment and surveillance DVR applications. The range is highly impressive in its specialist layout design that enables good ventilation to match Advantech’s comprehensive chassis with multiple expansion cards including full length card support.

Based on the 2nd Generation Intel Core i7 processor and Intel QM67 Express chipset, Advantech is releasing a COM-Express basic module—SOM-5890 (95 x 125 mm), that is compliant with the newly released PICMG COM.0 R2.0 type 6 specification. SOM-5890 supports memory with ECC/non-ECC versions, up to SATA 6Gb/s, PCI Express x16 Gen2, and integrated HDMI/DVI/Displayport display interfaces. With great performance and rich graphic interfaces, it is the most suitable solution for high processing, graphic intensive demands, and multi-display applications. Advantech will also be introducing a new industrial motherboard called AIMB-272, capable of SATA RAID 0, 1, 5 & 10 to ensure reliable storage and system protection for network-intensive applications, which brings top performance with power saving features to the Mini-ITX motherboard class.

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