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New SBCs and Embedded Systems with the latest Intel® Atom™ Processor D510

The PICOe-D510 half-size CPU card with the 1.66 GHz dual-core Intel® Atom™ processor D510; the PM-PV-D510 PC/104 CPU Board with the 1.66 GHz Intel® Atom™ processor N450; and the IBX-300 embedded system with the Intel® Atom™ processor D510...

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IEI Technology introduces new SBCs and embedded systems with the latest Intel® Atom™ Processor D510

Taipei, Taiwan, February 23, 2010

IEI Technology Corp. (IEI), the global industrial PC innovator, today announced the launch of the three new products: the PICOe-D510 half-size CPU card with the 1.66 GHz dual-core Intel® Atom™ processor D510; the PM-PV-D510 PC/104 CPU Board with the 1.66 GHz Intel® Atom™ processor D510; and the IBX-300 embedded system with the Intel® Atom™ processor D510. These models are compact and ideally suited for use in digital signage, transportation infotainment, multimedia devices, kiosks, surveillance, and point-of-sales applications.



The **IEI PICOe-PV-D510** is a sophisticated half-size CPU card with high performance and low power consumption. The high performance 45 nm dual-core Intel® Atom™ processor D510 with 1 MB L2 cache ensures high data throughputs. The PICOe-PV-D510 supports dual display through a single-channel 18-bit LVDS interface (up to 1366x768 WXGA resolution) and an analog CRT port. The analog CRT port supports resolutions up to 2048x1536 and supports hot plugging. The Intel® Graphics Media Accelerator (GMA) 3150, with GFX core rendering speed of 400 MHz, is integrated in the processor and enhances graphics performance.

The Intel® Atom™ processor D510 is paired with the Intel® 82810HM I/O controller which provides six PCI Express x1 and four PCI interfaces which allow for system expansion and speedy data delivery for real-time control. The system comes with

built-in 512 MB 667 MHz DDR2 memory with the option of an additional 1.5 GB via DDR2 SO-DIMMs which improve the data delivery with less data lost and fewer delays.

The PICOe-PV-D510 has a variety of I/O and storage interfaces including two RS-232 serial ports, two PCIe GbE ports, three SATA II ports, seven USB 2.0 ports, one CompactFlash™ Type I/II slot and one audio interface that supports 7.1 channel HD audio via the IEI AC-KIT883HD audio kit.



The **IEI PM-PV-D510** is a sophisticated, low power consumption PC/104 form factor SBC. The single-core Intel® Atom™ processor D510 with a two 512 KB L2 cache is paired with the Intel® 82810HM I/O controller. Versatile graphics support by Intel® Graphics Media Accelerator 3150 is provided through a single-channel 18-bit LVDS interface (up to 1366x768 WXGA resolution) and an analog CRT port. The analog CRT port supports resolutions up to 2048x1536 and supports hot plugging. The small form factor allows systems to be developed for space critical applications. In addition, support for Windows® XP Professional, Windows® XP Embedded, Windows® CE, Linux operating systems make the PM-PV-D510 ideal for embedded systems.

The PM-PV-D510 is designed with plentiful I/O and storage interfaces including one RS-232, one RS-232/422/485, four USB 2.0, one SATA II, one CompactFlash™ Type I/II slot, a PCI-104 slot and one GbE LAN by Intel® 82567V GbE Ethernet PHY.



The **IEI IBX-300** is good choice for a fanless and ready-to-use compact embedded system with 160 mm x 125 mm x 44 mm. This system is designed with the Intel® Atom™ processor D510 with 1 MB of cache and is paired with the Intel® 82810HM I/O controller. One GB DDR2 SDRAM system memory and one 2.5" SATA HDD interface are included.

Other features of the Intel® Atom™ processor D510 are two DB-9 connectors to support eight video capture channels totally, which are 8-channel video capture for analog camera (4-channel video capture for each DB-9 connector), Conexant CX25850 multiport composite video decoder (8 inputs) and CX25821 (PCIe x1) media bridge.

For Ethernet, the IBX-300 is designed with the Intel® 82567V GbE Phy and one PCIe interface. The multi communications are PCIe x1 signal via Intel® 82810HM I/O controller, LAN signal via Intel® 82567V GbE Phy and LAN via standard RJ-45 with ACK/LINK LED connector on rear side. In the video and audio communication, IBX-300 has the Intel® GMA 3150 rendering speed of 400MHz on board, and built-in one VGA, one RS-232/422/485 COM port, four USB connectors, two audio jack connectors for line-out and MIC-in, and one WiFi support. It supports analog CRT up to 2048x1536 and hot plug.

For more information, please visit www.ieiworld.com or contact sales@iei.com.tw for further information.

About IEI Technology Corp.



IEI Technology Corp. is a leading industrial computer provider. IEI's products are applied in computer-based applications such as factory automation, computer telephony integration, networking appliances, security, systems, POS systems and in fields like national defense, police administration, transportation, communication base stations and medical instruments. IEI continues to promote its own-brand products as well as serving ODM vertical markets to offer complete and professional service.

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