

Portwell Launches Intel Ivy Bridge Based Type VI Com Express Compact Module



American Portwell Technology, Inc., has expanded its COM Express product portfolio to include a high performance module design on a COM Express Compact (95mm x 95mm) form factor featuring mobile Intel Express QM77 PCH with 22nm third generation quad-core/dual-core Intel Core i7/i5/i3 (formerly codenamed Ivy Bridge) processors, ECC DDR3 SDRAM, LVDS/Display Port, Gigabit Ethernet, USB 3.0, PCI-E Gen 3, SATA 3.0 and support for AMT 8.0.

According to Robert Feng, American Portwell's product marketing manager, the new PCOM-B219VG Type VI COM Express module's enhanced feature set -- which includes Intel HD Graphics 4000 high performance integrated graphics solution for 3 independent displays -- is perfect for application such as POS, lottery, network, military, medical, gaming, high resolution digital signage, surveillance security monitoring and kiosks.

Other features of this latest addition to Portwell's COM Express form factor family include: CPU support for Gen 3 PCI-E x16; QM77 PCH that supports faster I/O interfaces on seven PCI-E lanes (four x1 can be configured to one x4 lane); power sharing technology between the CPU and graphics engine to maximize performance; support for four SATA ports (including two 6Gbps ports and two 3Gbps ports); display port (DP), HDMI and DVI supported with an increase of up 50 percent in 3D performance and 18X HD to HD transcode performance; and support for four USB 3.0 ports.

American Portwell Technology is a wholly owned subsidiary of Portwell, Inc., a world-leading innovator in the embedded computing market and a Premier member of the

Intel Intelligent Systems Alliance. In addition to PCOM-B219VG, Portwell's COM Express product line now includes PCOM-B218VG (Atom D2550 Type 6), PCOM-B217VG-VI-ECC (QM67 Type 6 ECC), PCOM-B217VG (QM67), PCOM-216VG-VI-ECC (QM57 Type 6 ECC), PCOM-B216VG (QM57), PCOM-B215VG (Atom N450/D510), PCOM-214VG (Atom N270), PCOM-213VG (GM45), PCOM-B212VG (GME965), PCOM-B211VG (945GM) and PCOM-B210VG (915GM).

Improved Performance without Mechanical Change

"Designed on a compact 95mm x 95mm platform, the PCOM-B219VG is backward compatible and protects our customers' legacy investments. Most Intel

Atom(tm) processor-based COM Express modules have been developed on a 95mm x 95mm platform and the QM77 PCH works equally as effectively with second generation (codenamed Sandy Bridge) and third generation (codenamed Ivy Bridge) Intel Core processors," explains Feng. "In fact, PCOM-B219VG enables a wide range of low TDP Intel Core processors to be utilized, protecting legacy investment while providing improved performance without the expense of mechanical change. Other improvements include the integrated USB 3.0 that provides a data speed that can be 10 times faster without extra add-on cost and PCI-E x16 Gen 3 that provides the fastest data transfer for video and other add-on cards."

Shorter Development Time and Longer Product Life Cycle Support

Frank Shen, American Portwell Technology's VP of product marketing points out that the new PCOM-B219VG is an ideal choice for current COM Express Type VI customers using Atom or lower performance processors who suffer from space limitations and wish to upgrade their system performance. "Our new PCOM-B219VG Type VI COM Express module can help design engineers save development time and reduce the cost of creating custom systems," states Shen. "Like all of our customers, they will not only benefit from American Portwell's ability to consistently provide the most up-to-date technology and features, but they also gain peace of mind from the long life cycle support inherent with every Portwell product."

American Portwell Technology, Inc.

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