

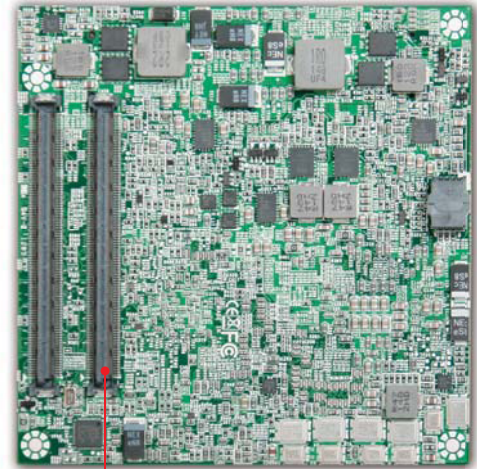
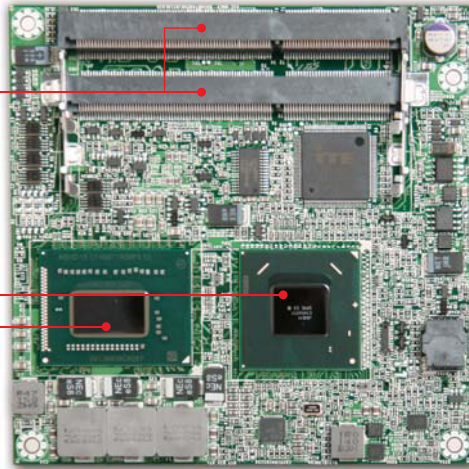


PCOM-B219VG

PCOM-B219VG Intel® Ivy Bridge Mobile based Type VI Com Express with DDR3 SDRAM, VGA, LVDS, Gigabit Ethernet, 6Gbps SATA, and USB3.0

Two 204pin DDR3 SODIMM sockets

Intel® QM77
Intel® Ivy Bridge Processor



Board-to-board interconnectors

Portwell PCOM-B219VG is designed with latest Intel®QM77 chipset to offer high computing power by Intel's third generation Quad Core/Dual Core embedded processor ,with turbo-boost, vPro, Hyper Threading, 3D Tri-gate Transistor, USB3.0 which offer high performance and accurate responses for medical healthcare systems, military equipments, and retail system.

FEATURES

- The Intel's third generation 22nm Quad Core/Dual Core embedded processor and QM77 Platform provide more performance at same TDP or lower
- Support faster I/O interfaces on seven PCI Express lanes (four x1 can be configured to one x4 lane)
- Support four SATA ports include two 6Gbps ports and two 3Gbps ports
- Power sharing technology between CPU and Graphics engine to maximize performance.
- DP (Display Port), HDMI, DVI supported, up to 50% 3D performance increase, 1.8X HD to HD transcode performance.
- Four USB3.0 ports supported

ORDERING GUIDE

AB1-3828	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i7 3815QE (2.3GHz, 49watts)
AB1-3829	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i7 3812QE (2.1GHz, 35watts)
AB1-3830	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i7 3555LE (2.5GHz, 25watts)
AB1-3831	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i7 3517UE (1.7GHz, 17watts)
AB1-3832	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i5 3810ME (2.1GHz, 35watts)
AB1-3833	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i3 3120ME (2.4GHz, 35watts)
AB1-3834	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Core i3 3217UE (1.6GHz, 17watts)
AB1-3839	PCOM-B219VG.Type VI. Compact	IvyBridge HM76, Type 6, ECC Celeron 1020E (2.2GHz, 35watts)
AB1-3944	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Celeron 1047UE (1.4GHz, 17watts)
AB1-3945	PCOM-B219VG.Type VI. Compact	IvyBridge QM77, Type 6, ECC Celeron 927UE (1.5GHz, 17watts)

GENERAL

Processor	-Intel® 22nm Ivy Bridge 3 rd Core™ i7/i5/i3 processor up to 2.7GHz (17~45W) and 8MB Cache. -DMI x4 Link:5GT/s -Support Intel® Turbo Boost, vPro, Hyper Threading, Virtualization Technology, Trusted Execution Technology, 3-D transistor technology. OS Guard, Secure Key.
Chipset	-Intel® QM77(4.1W) -Intel® Rapid Storage Technology 11 and Active Management Technology 8.0, Storage Power Savings.
BIOS	Phoenix SCT 2.2
Memory	Support up to 16GB ECC DDR3 1333/1600 MT/s SDRAM on two 204-pin SODIMM sockets.
Storage Devices	SATA 6.0Gb/s x 2, 3.0Gb/s x 2
Watchdog Timer	Programmable via S/W from 1 sec to 255 min
Ethernet	Intel® 82579LM Gigabit LAN x 1 (Support vPro, Jumbo frames, Energy Efficient Ethernet)
Audio	Intel® High Definition Audio(2x channels delivering 192-KHz 32-bits, and 8x channels delivering 96-KHz 32-Bits)
Expansion Interface	-7x PCI Express x1 Gen2 (5.0GT/s) -LPC Interface (4-bit-wide bus operating at 4 times the clock speed, 33.3MHz) -8x Universal Serial Bus 2.0(480 Mb/s bus comprehends the high-speed/ full-speed /low-speed data ranges), 4 of 8 USB2.0 support USB3.0.
Hardware Monitors	ITE 8518 CPU, Voltage Temperature
Power Requirement	-Typical:12V, 5VSB,VBAT -Support AT and ATX
Dimension Environment	95mm(L)x 95mm(W),3.7"(L)x3.7"(W), PCB:14 layers -Operation Temperature: 0 ~ 60° C -Storage Temperature: -40 ~ 85° C -Relative Humidity: 5~95%
MTBF	Over 120,000 hours at 40 Degree Celsius

DISPLAY

Graphic Controller	The seventh generation graphics core supports DX11, OpenGL 3.0
Graphic Memory	Intel Dynamic Video Memory Technology
Display Interface	CRT: Resolution up to 2560x1600 LVDS: Resolution up to 1920x1200 18bpp / 24bpp DP: Resolution up to 2560x1600



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