



PCOM- B219VG

Military application computers face more stringent conditions than industrial computers which must withstand vibration, shock, humidity, and harsh environment. In addition, the performances is also required for high speed and accurate responses.

3rd generation Intel® Core™ processor family based Type VI Com Express with DDR3 SDRAM, VGA, LVDS, Gigabit Ethernet, 6Gbps SATA, and USB3.0



The Portwell PCOM-B219VG is designed with the Intel® QM77 express chipset which offers high computing power with the 3rd generation Intel core family. This provides turbo-boost, vPro, Hyper Threading, 3D Tri-gate Transistors, USB 3.0 and all the other materials necessary of withstanding wide temperature ranges necessary for harsh environment.



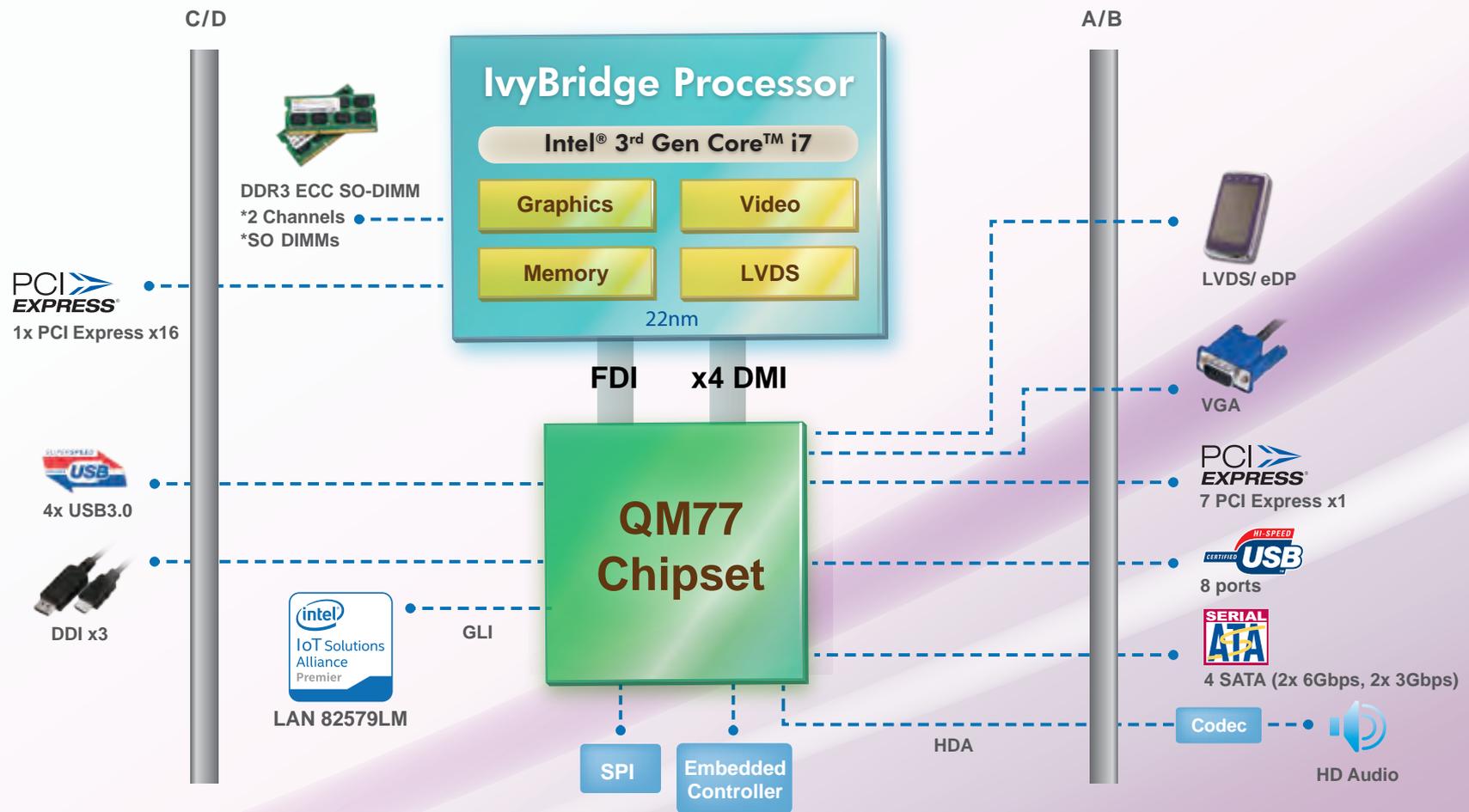
The new Intel® Ivy Bridge platform provides this flexibility of cross-platform CPU selection. Its compact size and rugged design can withstand a wide temperature range of -40 to 80 degree Celsius while providing high speed and accurate responses from command centers to remote stations such as missile launchers, radar stations, and unmanned vehicles.

FEATURES

- 3rd generation Intel® Core™ processor family and mobile Intel® QM77 Express chipset provide more performance at same TDP or lower.
- Supports faster I/O interfaces on seven PCI Express lanes (four x1 can be configured to one x4 lane)
- Supports four SATA ports include two 6Gbps ports and two 3Gbps ports
- Power sharing technology between CPU and Graphics engine to maximize performance.
- Display Port (DP), 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	(R).PCOM-B219VG-VI-3615QE
AB1-3829	(R).PCOM-B219VG-VI-3612QE with MOQ
AB1-3830	(R).PCOM-B219VG-VI-3555LE
AB1-3831	(R).PCOM-B219VG-VI-3517UE with MOQ
AB1-3832	(R).PCOM-B219VG-VI-3610ME with MOQ
AB1-3833	(R).PCOM-B219VG-VI-3120ME
AB1-3834	(R).PCOM-B219VG-VI-3217UE with MOQ



Processor Core

- ◆ IvyBridge Core (22nm) QC, DC & Uni-core SKUs
- ◆ 6MB, 4MB, 3MB Shared Last Level Cache
- ◆ SMT: 4-8 threads/core
- ◆ Turbo Mode

Highlights

- ◆ Integrated Memory Controller: 2 Channels of Native DDR3 support ECC
- ◆ Integrated Native PCI-E Gen 3 supports 1x16, 2x8, 1x4, 6x1 configurations

Memory

- ◆ DDR3-1067/1333/1600 MT/s, up to 16GB
- ◆ 2 Channels
- ◆ 25.6 GB/s Peak Memory Bandwidth

Platform Thermal Design Power

	i7-3615QE	i7-3517UE	i5-3120ME
CPU	45W	17W	35W
PCH	QM77 4.1W	QM77 4.1W	QM77 4.1W
Watt	49.1W	21.1W	39.1W