

# PCOM- B216VG



Automation is not only limited to factories it is also applied to home and office environments. It also features factory automation applications such as production use SCADA, HMI, Robotic/Machine arm, inspection X-Ray; Home/Office automation to CCTV & security, lighting, sprinkler and entertainment.



Intel® Arrandale Processor based Type II COM Express module with DDR3 SDRAM, VGA, Gigabit Ethernet, 3.0 GT/s SATA and USB

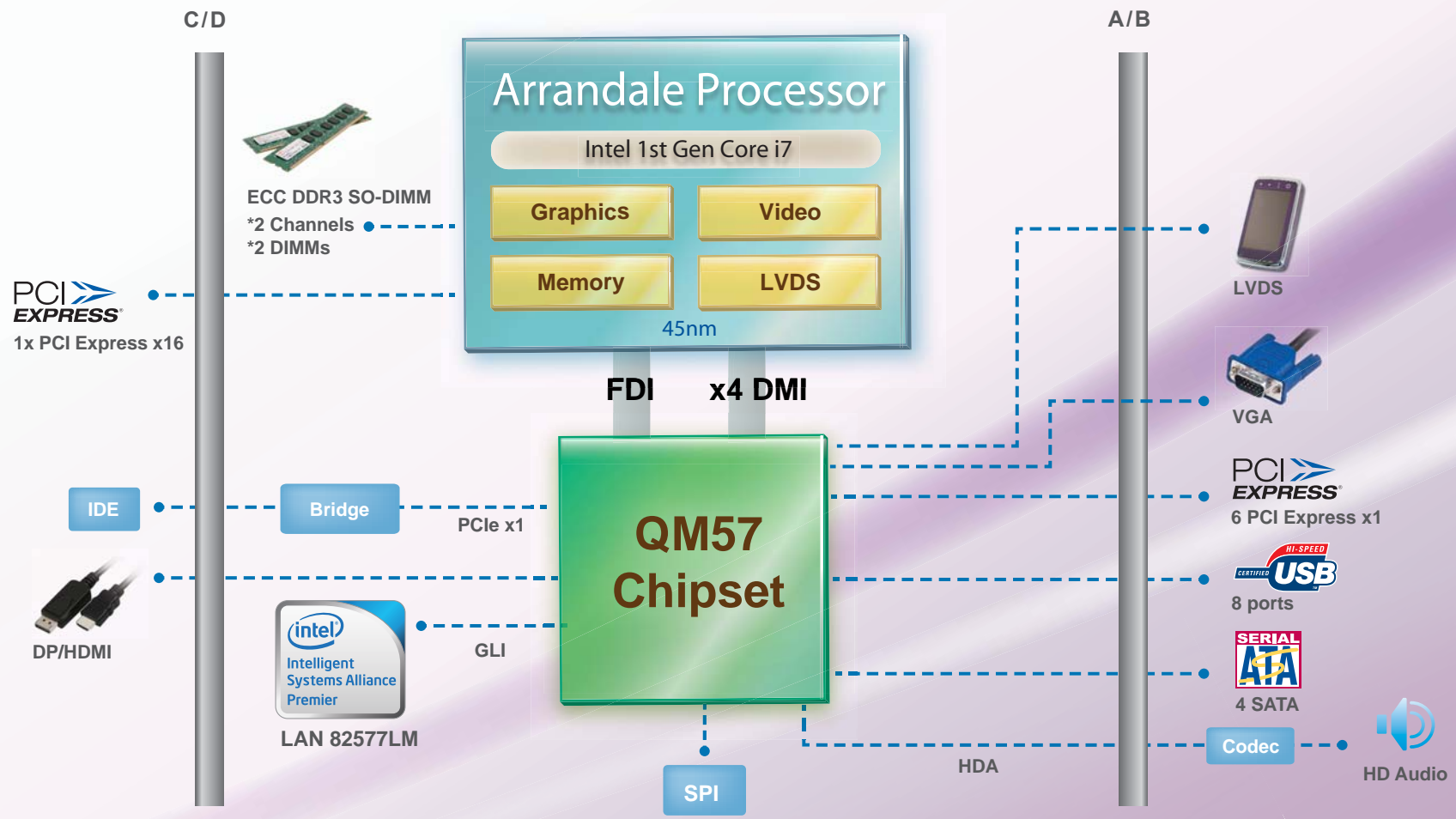
Portwell PCOM-B216VG series are designed with the 1st generation Core i multi-core processors from Intel® which can deliver greater performance to enhance today's growing automation demands providing great responsiveness through PCI & PCI-E interfaces. Through Intel® vPro technology, PCOM-B216VG can support the backend system to monitor real time automation environments via Ethernet ports which can also decrease the execution costs.

## FEATURES

- The Intel® Arrandale and QM57 platform with turbo boost technology to maximize CPU & Graphic performance
- Intel® Arrandale platform support variously powerful processor from ultra low power to mainstream performance type
- Supports Intel® intelligent power sharing technology to reduce TDP (Thermal Design Power)
- Enhance Intel® vPro efficiency by Intel® 82577LM GbE PHY and AMT6.0 technology
- Support two DDR3 800/1066 SDRAM on two SODIMM sockets, up to 8GB memory size

## ORDERING GUIDE

AB1-3508	PCOM-B216VG (Type II)
AB1-3534	PCOM-B216VG-ECC (Type II with ECC)
AB1-3552	PCOM-B216VG-VI-ECC (Type VI with ECC) Arrandale Core i7-610E (2.53G, 35Watts, w/Turbo boost)
AB1-3510	PCOM-B216VG (Type II)
AB1-3536	PCOM-B216VG-ECC (Type II with ECC)
AB1-3554	PCOM-B216VG-VI-ECC (Type VI with ECC) Arrandale Core i7-620UE (1.06G, 18Watts, w/Turbo boost)
AB1-3514	PCOM-B216VG (Type II)
AB1-3538	PCOM-B216VG-ECC (Type II with ECC)
AB1-3556	PCOM-B216VG-VI-ECC (Type VI with ECC) Arrandale Celeron P4505 (1.86G, 35Watts, w/Turbo boost)
B8303110	Cooler for 620UE, 620LE CPU (25W)
B8303560	Cooler for 610E, 520E, P4505CPU (25~35W)
B8302670	Heat Spreader.125x95x9.2mm for PCOM-B216VG series



### Processor Core

- ◆ Arrandale Core (45nm) QC, DC & Uni-core SKUs
- ◆ 4MB, 3MB, 2MB Shared Last Level Cache
- ◆ SMT: 2~4 threads/core
- ◆ Turbo Mode

### Highlights

- ◆ Integrated Memory Controller: 2 Channels of Native DDR3 Support ECC or non-ECC (by COM-E Type)
- ◆ Integrated Native PCI-E Gen 2 Supports 1x16, 2x8, 1x4, 6x1 configurations

### Memory

- ◆ DDR3-800/1067 MT/s, up to 8GB
- ◆ 2 Channels
- ◆ 17.1 GB/s Peak Memory Bandwidth

### Platform Thermal Design Power

	<b>i7-610E</b>	<b>i7-620UE</b>	<b>Celeron P4505</b>
	35W	18W	35W
	<b>QM57</b>	<b>QM57</b>	<b>QM57</b>
	3.5W	3.5W	3.5W
<b>Watt</b>	<b>38.5W</b>	<b>21.5W</b>	<b>38.5W</b>