

# PCOM- B215VG

Booming network demands to voice communication, video streaming, social network and data security server integrators are facing more challenges with power consumption, security, maintenance and limited down time for building network servers to consumer and enterprise needs.



Intel® Atom™ based Type II micro-COM Express module with DDR2/DDR3 SDRAM, VGA, Gigabit Ethernet, SATA, USB and NAND Flash

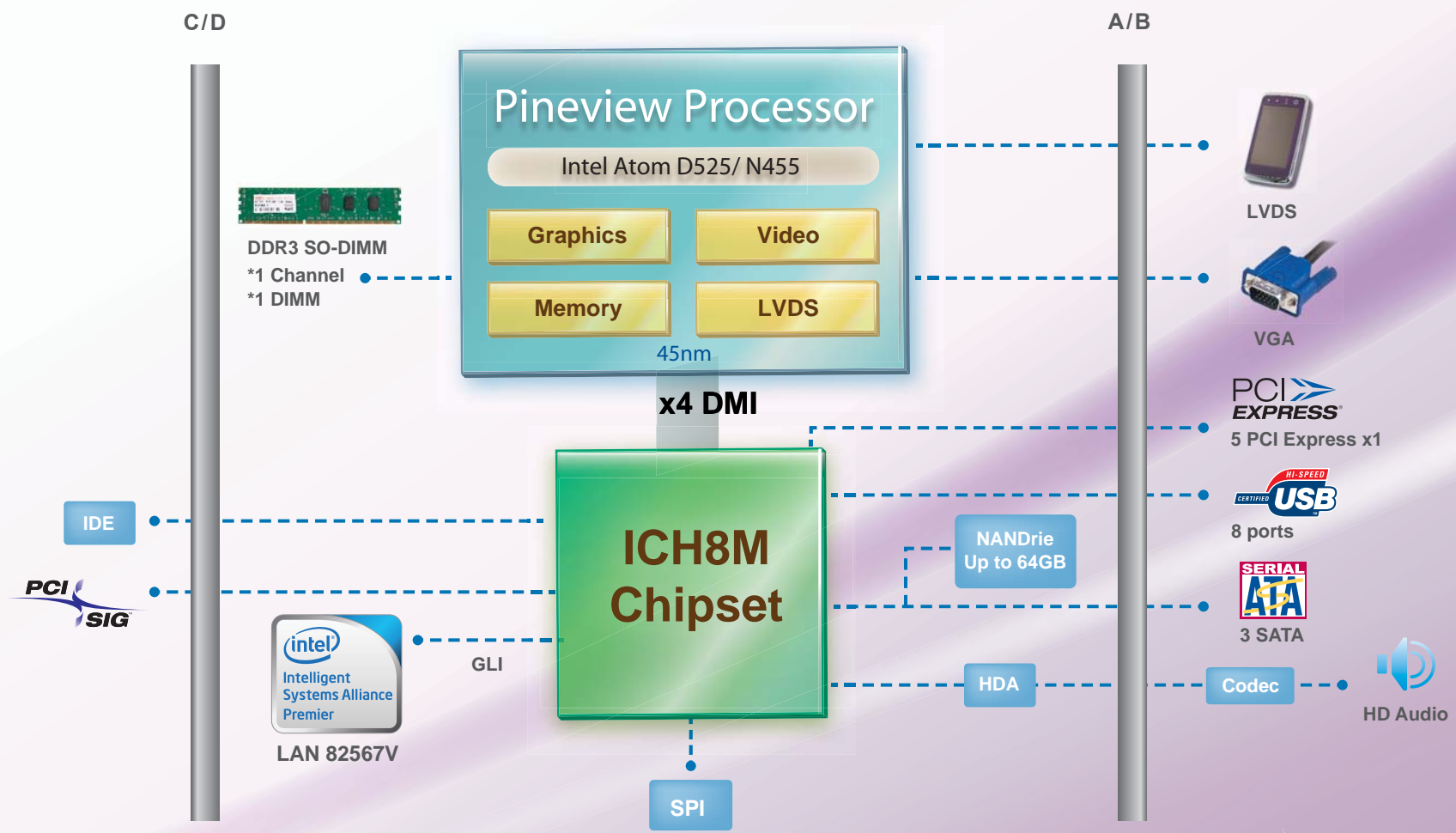
Portwell PCOM-B215VG series are designed with Intel® Pineview N455/ D425/ D525 + ICH8M low power, cost effective single/dual core solutions, featuring computing power adjustments, advanced firmware for PATA/ SATA security command and flash region protection suitable for monitors system loading and computing power. With flash protective functions, no one can change the machine's settings or steal storage data during the system's initial stage. Remote display and control functions are also supported by PCOM-B215VG series. This means the system can be controlled without a monitor or keyboard.

## FEATURES

- The Intel® Atom™ N455 (Pineview-M) / D425 (Pineview-D, Single core) D525 (Pineview-D, Duo core) and ICH8M platform that provides cost effective solutions with low power and duo core processor technology
- Intel® Pineview-M / Pineview-D can be supported on the same compact board
- Supports five PCI Express lanes, four x 1 lanes can be configured to one x4 lane
- On-board ATA 4GB Solid State Drive, up to 32GB (Commercial-grade)
- Supports one DDR3 800MHz SDRAM, up to 4GB memory size
- Supports MPEG2 Decode in HW 4GB memory size

## ORDERING GUIDE

AB1-3732	(R).PCOM-B215VG-D525.TYPE II.w/EC/Pineview-D DC DDR3
AB1-3734	(R).PCOM-B215VG-N455.TYPE II.w/EC/Pineview-M SC DDR3
B8303260	Heat Sink.95x95x15.4mm for PCOM-B215
B8303380	Heat Spreader.95x95x9.2mm for PCOM-B215
B8303390	Cooler.95x95x28mm For PCOM-B215



### Processor Core

- ◆ Pineview Core (45nm) D525 DC, D425/N455 SKUs
- ◆ 1MB, 512KB, 512KB Shared Last Level Cache
- ◆ SMT: 4 threads / core

### Highlights

- ◆ Integrated Memory Controller: 1Channel of Native DDR2/DDR3 Support
- ◆ Integrated Native PCI-E Gen 1 Supports 1x4, 5x1 configurations

### Memory

- ◆ DDR3-800/667 MT/s, N455 667MHz up to 2GB, D425/D525 667/800 MHz up to 4GB
- ◆ 1 Channel
- ◆ 6.4 GB/s Peak Memory Bandwidth

### Platform Thermal Design Power

	D525	D425	N455
	13W	10W	6.5W
	2.4W	2.4W	2.4W
<b>Watt</b>	<b>15.4W</b>	<b>12.4W</b>	<b>8.9W</b>