

# PCOM- B21A

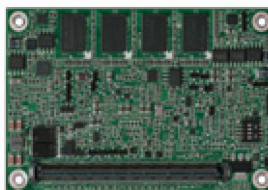


Developments with height and size constraints require integrated processors with the flexibility of upgradable options such as with hand held mobile devices, industrial thin clients, industrial switches, small file/firewall servers, spam prevention and virus protection intelligence systems.



## Intel® Cedarview based Type 10 Mini-COM Express module with the PICMG COM.0 R2.1 specification

The new Cedar Trail on Mini-Com-Express® is the size of a business card (84mm x 55mm). Its compact size multi-core processor N2600/N2800 +NM10 provides rich I/O and expansions such as PCI-E, LAN, USB and multi-display features.



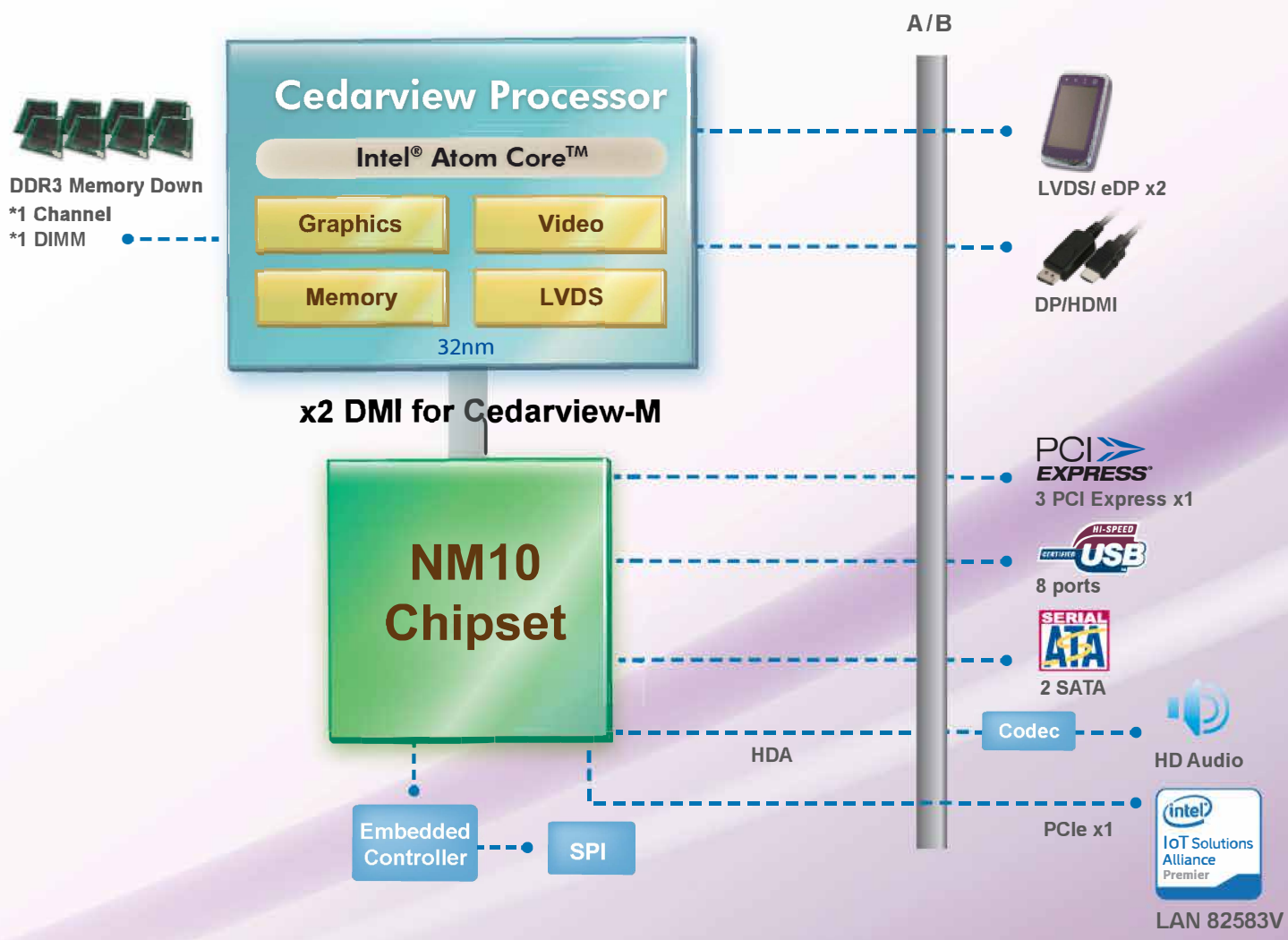
Portwell PCOM-B21A series are designed with Intel® N2600 / N2800 +NM10 with less than 12W low power consumption and cost effective dual core solution. This product features a fan-less system capable of withstanding -40 to 80 degree Celsius making it suitable for military and aerospace communications and the environments in which they operate.

### FEATURES

- The Intel® Atom™ N2600/N2800 embedded processor and NM10 platform that provides cost effective solutions with low power and dual core processor technology
- Supports four PCI Express lanes, four x1 lanes can be configured to one x4 lane
- Supports one DDR3 1067MT/s SDRAM, UP to 2GB(N2600)/ 4GB(N2800)
- Supports eight USB2.0
- Supports dual independent displays of HDMI and DP

### ORDERING GUIDE

AB1-3875	(R).PCOM-B21A-N2800-2G. TYPE 10, Mini COM-Express
AB1-3A39	(R).PCOM-B21A-N2600-1G. TYPE 10, Mini COM-Express
AB1-3A38	(R).PCOM-B21A-N2800-1G. TYPE 10, Mini COM-Express
AB1-3956	(R).PCOM-B21A-N2600-I-1G. TYPE 10, Mini COM-Express



### Processor Core

- ◆ Cedarview Core™ (32nm)  
N2800, N2600 Dual Core SKUs
- ◆ 1MB, Shared Last Level Cache
- ◆ SMT: 4 threads/core
- ◆ Turbo Mode

### Highlights

- ◆ Wide range 4.75V~20V DC input support
- ◆ Onboard nano SSD, up to 32GB
- ◆ Integrated Native PCI-E Gen 1 supports 1x4, 4x1 configurations

### Memory

- ◆ DDR3-1067 MT/s
- ◆ 1 Memory Channel
- ◆ 6.4GB/s Peak Memory Bandwidth

### Platform Thermal Design Power

<b>CPU</b>	<b>N2800</b> 6.5W	<b>N2600</b> 3.5W
<b>PCH</b>	<b>NM10</b> 2.1W	<b>NM10</b> 2.1W
<b>Watt</b>	<b>8.6W</b>	<b>5.6W</b>