PCOM-B218VGT

More than 2 billion people use network services in the world but not all the networks and communication servers are located in air conditioned rooms. Remote communication sites located in desert, mountains and other environments of extended temperature and humidity where functional applications are critical.

Intel® Cedarview based Type VI Compact-COM Express® module with the PICMG COM.0 R2.1 specification

Portwell PCOM-B218VGT series are designed with Intel® N2600 / N2800/ D2550+NM10 with less than 10W low power consumption and cost effective dual core solutions. This product features a fan-less system capable of withstanding temperatures of -40 to 80 degree Celsius making it suitable for military and aerospace communication in the environments in which they operate.
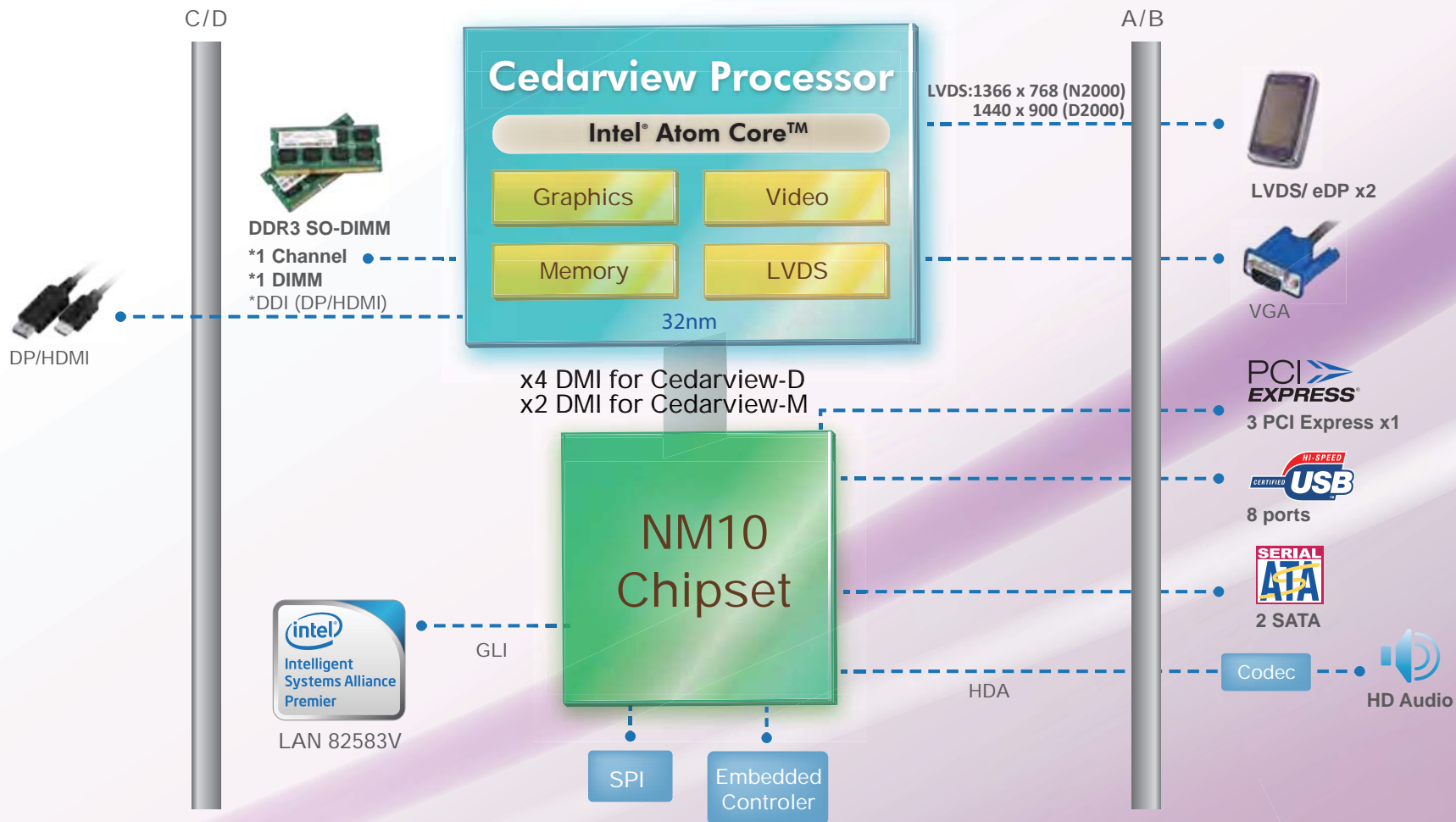
For the Cedarview processor integrated graphic engine that supplies 2 simultaneous digital displays (2 displays pipes) that extreme 3D performance for media applications such as high definition 1080p imaging; one SO-DIMM sockets to support DDR3 SDRAM up to 4GB; two SATA ports; one Fast Ethernet; three PCI-E x1, LPC interface and high definition audio interface.

FEATURES

- The Intel® Atom N2600 / N2800 / D2550 embedded processor and NM10 platform that provides cost effective solutions with low power and dual core processor technology
- Supports four PCI Express lanes, four x 1 lanes can be configured to one x 4 lane
- Supports one DDR3 1067MT/s SDRAM, UP to 4GB
- Supports eight USB2.0
- Supports dual independent displays of LVDS and VGA

ORDERING GUIDE

AB1-3A29	(R).PCOM-B218VGT-N2600.TYPE VI. Compact Form Factor
AB1-3A37	(R).PCOM-B218VGT-N2800.TYPE VI. Compact Form Factor
AB1-3A30	(R).PCOM-B218VGT-D2550.TYPE VI. Compact Form Factor

C/D

A/B

Cedarview Processor

Intel® Atom Core™

| Graphics | Video |
| Memory | LVDS |

32nm

LVDS:1366 x 768 (N2000)
1440 x 900 (D2000)

DDR3 SO-DIMM

*1 Channel
*1 DIMM
*DDI (DP/HDMI)

DP/HDMI

LVDS/ eDP x2

VGA

x4 DMI for Cedarview-D
x2 DMI for Cedarview-M

NM10 Chipset

PCI EXPRESS®

3 PCI Express x1

HI-SPEED USB CERTIFIED

8 ports

SERIAL ATA

2 SATA

intel
Intelligent
Systems Alliance
Premier

GLI

LAN 82583V

SPI

Embedded Controler

HDA

Codec

HD Audio

Processor Core	**Highlights**	**Memory**
◆ Cedarview Core™ (32nm) N2800, N2600, D2550 Uni-core SKUs	◆ Integrated Memory Controller:1 Channel of Native DDR3 support	◆ DDR3-1067 MT/s, up to 4GB
◆ 1MB, Shared Last Level Cache	◆ Integrated Native PCI-E Gen 1 supports 1x4, 4x1 configurations	◆ 1 Memory Channel
◆ SMT: 4 threads/core		◆ 6.4GB/s Peak Memory Bandwith

Platform Thermal Design Power

	N2800	N2600	D2550
	6.5W	3.5W	10W
	NM10 2.1W	NM10 2.1W	NM10 2.1W
Watt	8.6W	5.6W	12.1W