Portwell PCOM-B218VG series are designed with Intel® Atom™ N2800/ N2600/ D2550 processor NM10 platform that provides cost effective solution with low power and dual core processor technology. Due to low power consumption, high performance and fan less requirement, it is suitable for medical, military and industrial automation.

**FEATURES**
- Intel® Atom™ N2800/ N2600/ D2550 processor
- NM10 platform that provides cost effective solution with low power and dual core processor technology
- Support four PCI Express lanes, four x1 lanes can be configured to one x4 lane
- Support one DDR3 1067MT/s SDRAM, up to 4GB
- Support eight USB 2.0
- Support dual independent displays of LVDS and VGA

**GENERAL**

**Processor**
- Intel® Atom™ N2800 1.86GHz Dual-Core CPU. (6.5W)
- Intel® Atom™ N2600 1.6GHz Dual-Core CPU. (3.5W)
- Intel® Atom™ D2550 2.13GHz Dual-Core CPU. (10W)
- N2800 DMIx2 Link:2.5GT/s
- D2700 DMIx4 Link:5GT/s
- SpeedStep (N2800), Intel® 64, HT, XD Bit, SSE2/3, SSSE3
- 4x PCI Express x1 Gen1 (2.5GT/s) of which can be configured to one PCI Express x4 Gen1
- LPC Interface (4-bit-wide bus operating at 4 times the clock speed, 33.3MHz)
- 8x Universal Serial Bus 2.0 (480 Mb/s bus comprehends the high-speed/ full-speed/low-speed data ranges)
- SPI interface up to 17.86MHz
- Intel® NM10 (2.1 W)

**Chipset**
- Intel® B200M 0.67 W

**BIOS**
- Phoenix BIOS
- Support UEFI 2.0, ACPI 3.0, SMBIOS 2.7 Compatibility Support Module

**Expansion Interface**
- Expansion Interface
- Board-to-board interconnectors

**Memory**
- Support up to 4GB DDR3 1067MT/s SDRAM on one 204-pin SODIMM socket

**Storage Devices**
- SATA 3.0Gb/s x 2

**Watchdog Timer**
- Programmable via S/W from 1 sec to 265 min

**Ethernet**
- Intel® 82583V Gigabit LAN x 1
- (Support Message Signaled Interrupts (MSI))

**Audio**
- Intel® High Definition Audio (2x channels delivering 192-KHz 32-bits, and 8x channels delivering 96-KHz 32-Bits)

**Display Interface**
- CRT: Resolution up to 1920x1200
- LVDS: N2800 1x18bpps, resolution up to 1366x768
- D2700 D2550: 1x18bpps/24bpps, resolution up to 1440x900
- DP: N2800: resolution up to 1600x1200
- D2700: resolution up to 2560x1600

**ORDERING GUIDE**
- AB1-3751Z (R).PCOM-B218VG-D2550.TYPE VI. Basic Form Factor
- AB1-3752Z (R).PCOM-B218VG-N2800.TYPE VI. Basic Form Factor
- AB1-3753Z (R).PCOM-B218VG-N2600.TYPE VI. Basic Form Factor

**DISPLAY**

**Graphic Controller**
- Intel® Atom™ D2550/N2800/N2600 processor integrated graphic support DX10.1
- Graphic core frequency up to 640MHz

**Graphic Memory**
- Intel® Dynamic Video Memory Technology

**Display Interface**
- CRT: Resolution up to 1920x1200
- LVDS: N2800 1x18bpps, resolution up to 1366x768
- D2700 1x18bpps/24bpps, resolution up to 1440x900
- DP: N2800: resolution up to 1600x1200
- D2700: resolution up to 2560x1600

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