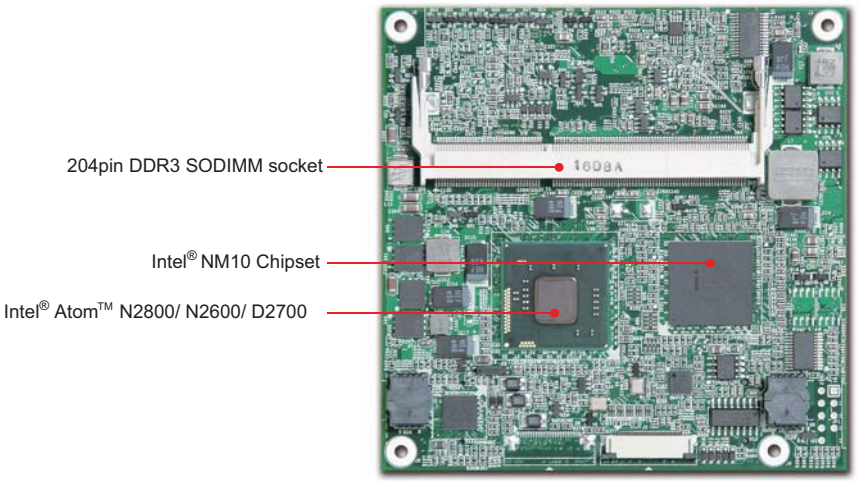
PCOM-B218VG

Intel® Atom™ N2600/N2800/D2550 processor based Type VI, Compact COM Express module with the PICMG COM.0 R2.0 specification



Portwell PCOM-B218VG series are designed with Intel® Atom™ N2800/ N2600/ D2550 processor NM10 chipset, cost effective dual-core solution. 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

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

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
Chipset	-Intel® NM10 (2.1 W)
BIOS	-Phoenix BIOS -Support UEFI 2.0, ACPI 3.0, SMBIOS 2.7 Compatibility Support Module
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 255 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)
Expansion Interface	-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
Hardware Monitors	LM87 CPU, Voltage and Temperature.
Power Requirement	Typical:12V, 5VSB,VBAT Support AT and ATX
Dimension	95mm(L)x 95mm(W), 3.7"(L)x3.7"(W), PCB:10 layers
Environment	-Operation Temperature: 0 ~ 60° C -Storage Temperature: -40 ~ 85° C -Relative Humidity: 5~95%
MTBF	Over 120,000 hours at 40 degree Celsius.

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 1x 18bpps/24bpps, resolution up to 1440x900 DP: N2800: resolution up to 1600x1200 D2700: resolution up to 2560x1600

Together in Electric Dreams!

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