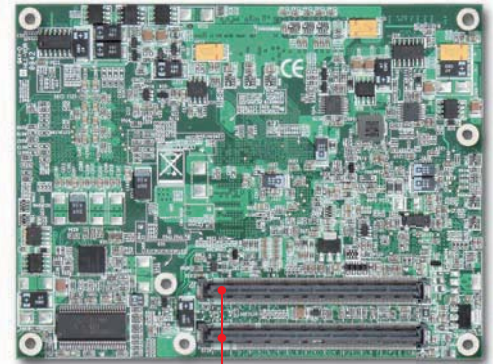
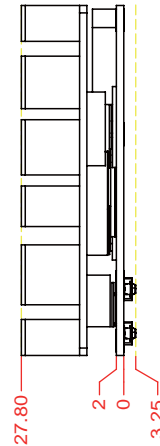


- 200-pin SO-DIMM socket
- Intel® Atom™ N270
- Intel® 945GSE
- Intel® ICH7M



Board-to-board interconnectors

Portwell PCOM-B214VG is designed with Intel® N270 1.6 GHz processor with 945GSE and ICH7M chipset, with less than 10W overall TDP it is suitable for fanless application related to multiple processor network blade, ATCA, access control, and industrial control application.

FEATURES

- The Intel® Atom™ N270 and 945GSE platform that provides cost effective solution technology
- Intel® Atom™ N270 + 945GSE + ICH7M platform brings under 10W TDP solution for easy fan-less applications
- SATA and IDE interface provide best cost effective functions for market
- Architecture of module and carrier boards speeds up time-to-market of tailor-made equipment
- Support one SODIMM socket and up to 2GB memory size

ORDERING GUIDE

AB1-3250	PCOM-B214VG.TYPE II.ATOM-N270/945GSE/ICH7M
B8302110	(GP).Heat Sink. 125x95x8.3mm Aluminum, T-flex630(x4) Black. IP076-TEBNCG-low. Polo
B8302660	Heat Spreader.125x95x10.2mm Aluminum for PCOM-B214
AB1-2289	PCOM-C210 Type II ATX Evaluation Carrier Board

GENERAL

Processor	- Intel® 45nm Atom™ N270 processor 1.6 GHz (2.5W) and 512KB Cache in FC-BGA package - FSB 533 MHz - Support Intel® Hyper-Threading, SpeedStep Technology and Execute Disable Bit
Chipset	- Intel® 945GSE (6W), Intel® Gen 3.5 Integrated Graphics Engine - Intel® ICH7M(2.5W), Intel® AHCI Technology
BIOS	- Award BIOS - Support Legacy Free, ACPI 2.0, SMBIOS 2.1
Memory	- Support up to 2GB DDR2 533/667 MT/s SDRAM on one 200-pin SODIMM sockets
Storage Devices	- SATA 3.0 Gb/s x 2 - EIDE x 1 with Ultra DMA 100/66/33
Watchdog Timer	- Programmable via S/W from 1sec to 255min
Ethernet	Intel® 82574L Gigabit LAN x 1 (supported vPro, Jumbo Frames, sync protocol indicator)
Audio	Intel® High Definition Audio (2x channels delivering 192-kHz 32-bit, and 8x channels delivering 96-kHz 32-bit)
Expansion Interface	- 3x PCI Expressx1 Gen1 (2.5 GT/s) - 4x PCI devices at 33 MHz - LPC Interface (4-bit-wide bus operating at 4 times the clock speed , 33.3 MHz) - 8x Universal Serial Bus 2.0 (480 Mb/s bus comprehends the high-speed / full-speed / low-speed data ranges) - SPI Interface up to 17.86 MHz
Hardware Monitors	- ADM1032 CPU Temperature
Power Requirement	- Typical: 12V, 5VSB, VBAT - Support AT and ATX mod
Dimension	125mm(L) x 95mm(W), 4.9"(L) x 3.7"(W), PCB: 10 layers
Environment	- Operation Temperature: 0~60 °C - Storage Temperature: -20~80 °C - Relative Humidity: 5~90%
MTBF	Over 120,000 hours at 40 Degree Celsius

DISPLAY

Graphic Controller	Intel® 945GSE integrated Graphics Media Accelerator (Intel® GMA950)
Graphic Memory	Intel® Dynamic Video Memory Technology (Intel DVMT 3.0)
Display Interface	CRT: resolution up to 2048 x 1536 (QXGA) LVDS: 1x 18bpp (resolution up to 1600 x 1200) SDVO: supports one SDVO port for eternal digital monitor

