Product Brief

Development Kit

Embedded Computing

Intel® Atom™ Processor N270 and Mobile Intel® 945GSE Express Chipset Development Kit

Product Overview

The Intel® Atom™ processor N270[Δ] and Mobile Intel® 945GSE Express chipset development kit provides robust performance-per-watt, power-efficient graphics and rich I/O capabilities for cost-effective embedded solutions.

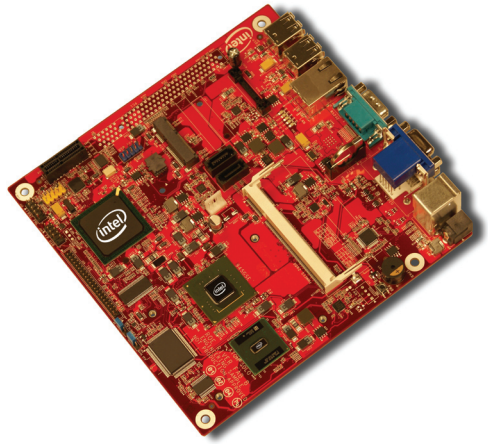
The chipset features an integrated 32-bit 3D graphics engine based on Intel® Graphics Media Accelerator 950 (Intel® GMA 950) architecture, a 533 MHz front-side bus (FSB), single-channel 400/533 MHz DDR2 system memory (SODIMM and/or memory down), Intel® Matrix Storage Technology and Intel® High Definition Audio[1] interface. The chipset delivers outstanding system performance and flexibility through high-bandwidth interfaces such as PCI Express,* PCI, Serial ATA, and Hi-Speed USB 2.0 connectivity.

This platform offers an excellent solution for embedded market segments such as digital signage, interactive clients (kiosks, point-of-sale terminals), thin clients, digital security, residential gateways, print imaging, and commercial and industrial control. It is part of Intel's comprehensive validation process, enabling fast deployment of next-generation platforms to help developers maximize competitive advantage while minimizing development risks.

This and other development kits from Intel provide a working system with a range of performance options that can be modified or used immediately for product development, and allow software vendors to test BIOS and operating system software.

Product Highlights

- Power-optimized Intel Atom processor N270 at 1.6 GHz core speed with 533 MHz AGTL+ FSB, implemented in 45nm technology
- Intel® 82945GSE Graphics Memory Controller Hub (GMCH) in a 998 µFC-BGA package and Intel® I/O Controller Hub 7-M (ICH7-M) in a 652 µ-BGA package
- Integrated 3D graphics engine, based on Intel GMA 950 architecture delivers sophisticated graphics for large display applications
- Single-channel non-ECC 400/533 MHz DDR2 (SODIMM and/or memory down)



Board Peripheral Features

- VGA port and DVI-D
- Two (2) SATA ports
- One (1) parallel ATA port (44-pin mobile header)
- Eight (8) USB 2.0 ports (four back-panel, two front-panel, one internal, one PCIe mini-card)
- One (1) PCIe x1 port
- One (1) PCIe mini-card connector for wireless adapter
- Realtek ALC268* High Definition Audio codec
- Front-panel headphone and mic-in support
- 10/100/1000 Realtek RTL8111* Ethernet Controller
- Legacy I/O:
  - PS/2
  - Serial
- 12 VDC input

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