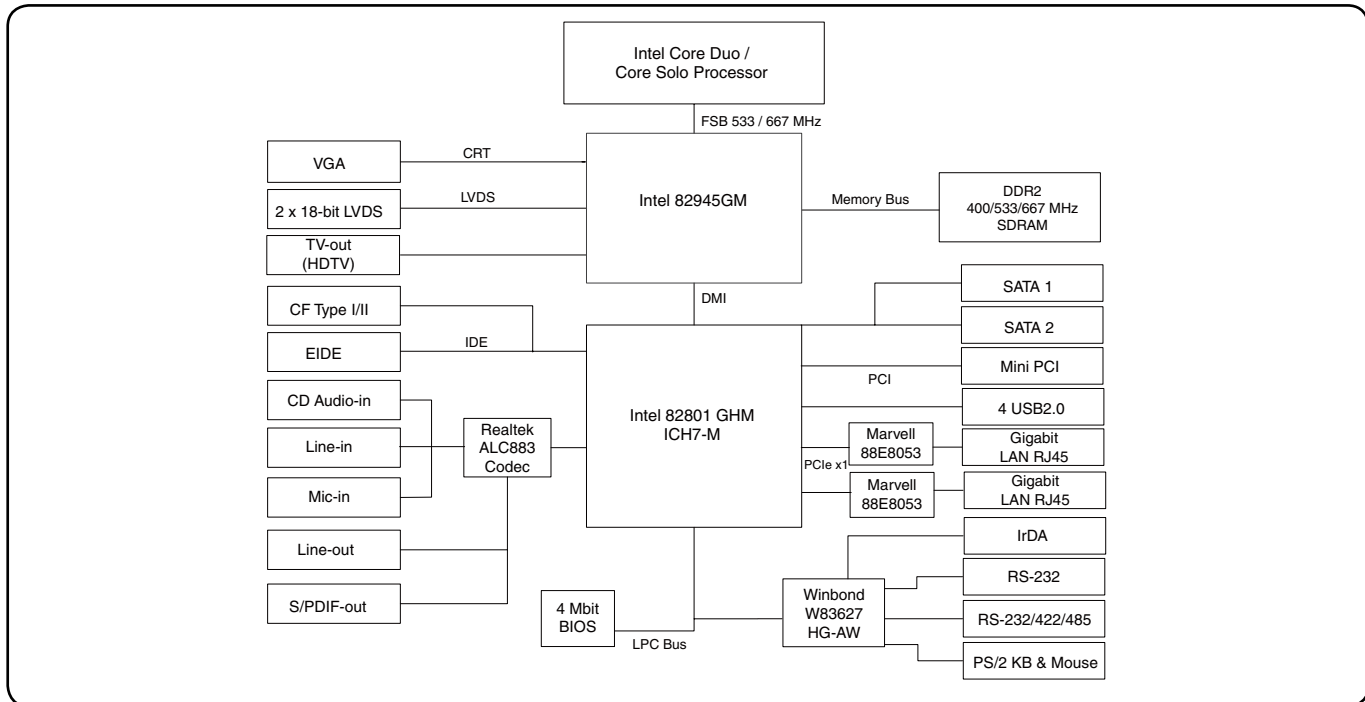


Block Diagram



Intel® 945GM Express Chipset

The Mobile Intel® 945GM Express chipset provides excellent flexibility for developers of embedded applications by offering improved graphics and increased I/O bandwidth over previous Intel® chipsets, as well as remote asset management capabilities and improved storage speed and reliability.

The chipset features include an integrated 32-bit 3D graphics engine based on Intel® Graphics Media Accelerator 950 (Intel® GMA 950) architecture, 533/667 MHz front-side bus, 4 GB of 400/533/667 MHz DDR2 SODIMM system memory, Intel® Active Management Technology (Intel® AMT), and Intel® Matrix Storage Technology.

The Mobile Intel® 945GM Express chipset's low power design enables up to 28% less average power consumption compared to previous generations. Optimized for the Intel Core Duo processor T2500 at 2.0 GHz (31 watts thermal design power) and Intel Core Duo processor L2400 at 1.66 GHz (15 watts thermal design power), Intel® 945GM Express chipset is designed to address the Consumptions of a range of embedded applications such as interactive clients and industrial automation equipment.

Featuring the Intel® GMA 950, the Mobile Intel 945GM Express chipset delivers up to 2x improvement in graphics performance over the previous generation chipset, and supports Microsoft® DirectX® 9.0 and Multiple Displays.

The Mobile Intel® 945GM Express chipset enables up to 25% higher data transfer rate compared to the previous generation bus speed. Additionally, it features next generation Serial ATA, and Hi-Speed USB 2.0 connectivity.

Benefits

- Provides up to 25% faster data transfer rate compared to the previous generation bus speed.
- Support for increased performance memory technology.
- Enables ease of use for optimally enjoying TV content through D-connector enabled devices.
- Support up to 8 USB 2.0 peripherals for maximum 40x faster data transfer and backward compatible to support USB 1.1 devices.
- Exceptional 3D graphics performance for corporate and consumer laptops.
- Enables enhanced performance, power management and data protection for the storage subsystem.
- Enables user to view protected premium video content to be displayed while providing content protection.
- Intelligent polygon rendering for enhanced 3D graphics performance.
- Enables enhanced visual quality of interlaced content on progressive displays.

Features

- 667MHz Front Side Bus
- Support for dual channel DDR2 667MHz memory technology
- Full D-connector support (D1-D5)
- Integrated high speed USB 2.0
- Intel® Graphics Media Accelerator (GMA) 950
- Intel® Matrix Storage Technology 5.5
- COPP/HDCP/CGMS-A support
- Intermediate Z in classic mode
- Adaptive de-interlacing

01
RISC02
ETX03
3.5"04
EPIC05
5.25"06
MB07
PC/10408
Barebones09
Smart
Terminal10
InnoFlex
PPC11
ACC