

Intel® 845 Chipset for Applied Computing

Product Highlights

- The Intel® 845 chipset is designed, validated, and optimized for the Intel® Pentium®4 processor with NetBurst™ micro-architecture using proven and established building blocks
- 400 MHz system bus delivers a high-bandwidth connection between the Intel Pentium 4 processor and the platform, providing 3x the bandwidth over platforms based on Intel® Pentium® III processors
- Advanced packaging technology and industry leading electrical design innovations ensure long-term system reliability over wide operating conditions
- The AGP4X interface continues to provide the most advanced graphics support available, enabling over 1 GB/s of graphics bandwidth
- Two USB controllers provide high-performance peripherals with 24 Mbps of bandwidth, while enabling support for up to four USB ports. This results in a significant increase over previous integrated 1-4 port hubs at 12 Mbps
- The latest AC'97 implementation delivers six channels of audio for enhanced sound quality and full surround sound capability. Integrated audio solutions continue to enjoy success as a very cost-effective, yet high-performance solution
- LAN Connect Interface (LCI) provides flexible network solutions such as home phone line, 10/100 Mbps Ethernet, and 10/100 Mbps Ethernet with LAN manageability
- The Intel® SingleDriver™ Technology supports all three network options, which simplifies network connectivity and eases deployment
- Dual Ultra ATA/100 controllers, coupled with the Intel® Application Accelerator - a performance software package - support faster IDE transfers to storage devices
- The Intel® Application Accelerator software provides additional performance over native ATA drivers. The Intel Application Accelerator improves system performance by improving I/O transfer rates and enables faster O/S load time resulting in accelerated boot times
- Communication and Network Riser (CNR) offers flexibility in system configuration with a baseline feature set that can be upgraded with an audio card, modem card, or network card
- Embedded life cycle support

Intel 845 Chipset Overview

Evolutionary Architecture

The Intel 845 chipset is designed, validated, and optimized for the Intel Pentium 4 processor with NetBurst micro-architecture using proven and established building blocks. Intel 845 chipset-based platforms extend the Intel Pentium 4 processor capabilities with a great balance of price and performance for applied computing segments.

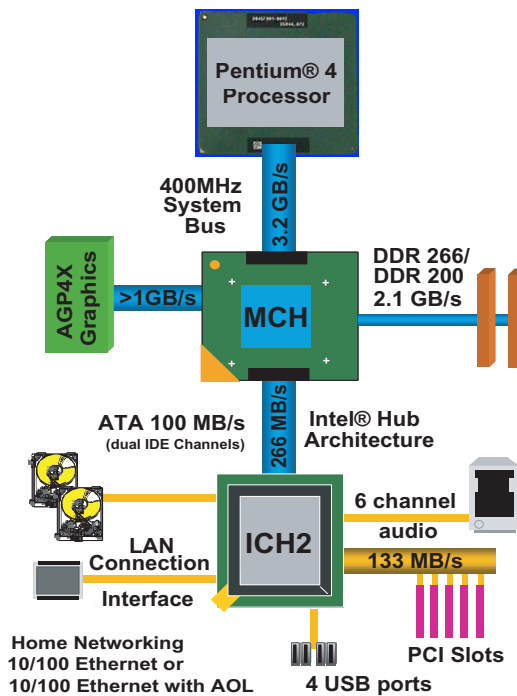
The Intel 845 chipset consists of two controller hubs:

The 82845 Memory Controller Hub (MCH) supports a 400 MHz system bus, PC133 SDRAM memory or DDR200/266 memory and the latest graphics devices through the 1.5V AGP4X interface.

The 82801BA I/O Controller Hub (ICH2) makes a direct connection to the graphics and memory for faster access to peripherals. It provides the features and bandwidth required for applied computing usage models. The ICH2 is already one of the highest volume PC platform products in the world, supporting motherboards based on the Intel® 815, Intel® 810, and Intel® 850 chipsets.

The Intel® Platform Advantage

Intel's platform architecture delivers the great performance and high scalability required for today's exciting e-Business and e-Home applications. Intel's comprehensive efforts to enable the industry ensure fast deployment of next-generation platforms, maximizing your competitive advantage. Our world-class platform validation creates a robust foundation for emerging applications, while minimizing deployment risks.



Intel® 845 Chipset Linecard

Product	Product Code	Package	Features
82845 Memory Controller Hub (MCH)	RG82845	593 FCBGA	400MHz System Bus PC133 and DDR 200/266 Memory AGP4X interface enables over 1 GB/s of graphics bandwidth.
I/O Control Hub 2	FW82801BA	360 EPGA	Direct connection to MCH with Intel's accelerated hub architecture Supports 32-bit PCI IDE controllers with ATA 100 Four USB ports AC '97 controller with 6 channel sound Integrated LAN connect interface

Intel Access

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