Can an Intel® Desktop Board deliver quality and integrity at a superb value?

Yes. Intel® Desktop Board D845GVFN for Intel® processors in the 478-pin package delivers quality and integrity at a superb value.

Delivering an Ultra Value Desktop Board

The Intel® Desktop Board D845GVFN delivers an integrated graphics solution with essential features designed to support the Intel® Celeron® processor with 400-MHz system bus[1], Intel® Celeron® D processor with 533-MHz system bus[2], and the Intel® Pentium® 4 processor with 533- or 400-MHz system bus[3] in the 478-pin package. This board design includes the quality and integrity you've come to expect from Intel® desktop boards with a focus on achieving the most economical platform solution. This product features the Intel® 845GV chipset with Intel® Extreme Graphics and support for up to 2 GB[4] of DDR 333[5]/266 SDRAM memory, onboard Intel® PRO 10/100 Network Connection, up to four USB 2.0 ports, and AC'97 audio to provide the essential low-cost platform building blocks for the value-oriented customer.

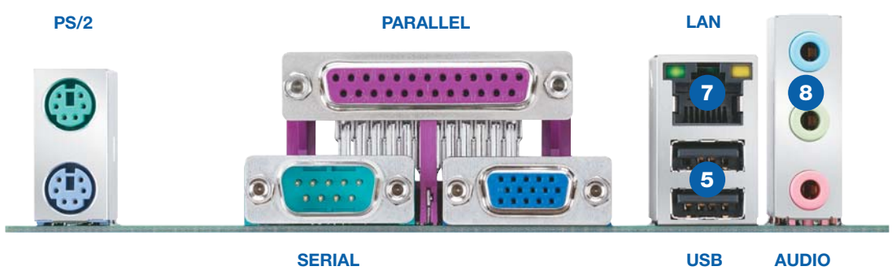
Boxed Intel® Desktop Board D845GVFN includes:

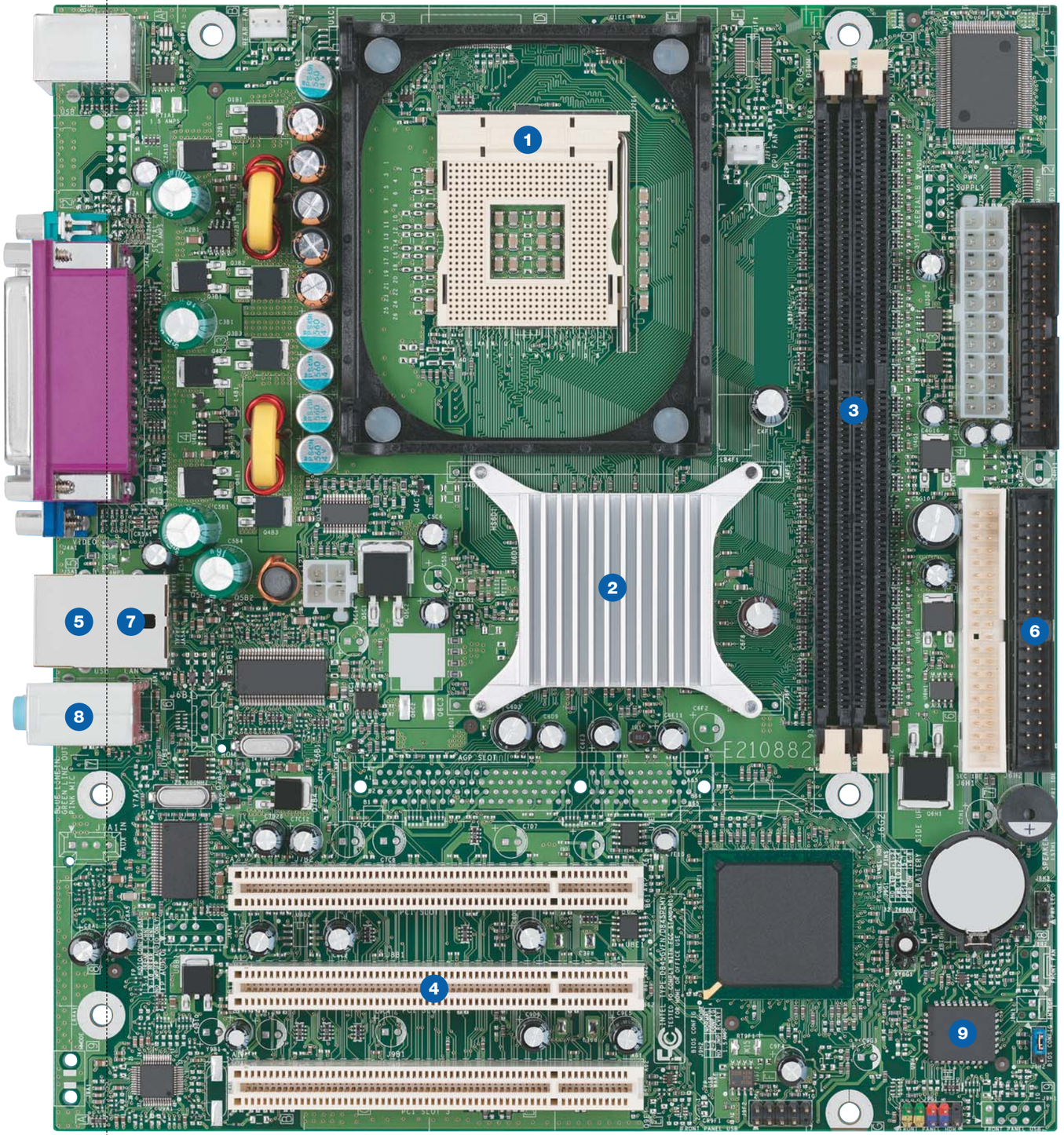
- Desktop Board D845GVFN
- ATX-compliant I/O shield
- IDE and floppy cables
- Board and back-panel I/O layout stickers
- Quick Reference Guide
- One-year Limited Desktop Board Warranty[6]
- Intel® Express Installer CD, including:
  - Norton Internet Security* 2003
  - NTI CD-Maker*
  - Farstone* RestoreIT! Lite
  - Adobe Acrobat* Reader
  - Software Drivers
  - Product Guide

Intel® Desktop Board D845GVFN

FEATURES AND BENEFITS

1. Processor Support: Intel® Celeron® processors with 400-MHz system bus[1], Intel® Celeron® D processors with 533-MHz system bus[2], and Intel® Pentium® 4 processors with 533- or 400-MHz system bus[3] in the 478-pin package.
2. Intel® 845GV chipset: Featuring Intel® Extreme Graphics with 64 MB Dynamic Video Memory.
3. Two DDR SDRAM DIMM sockets: Designed to support up to 2 GB[4] of single-channel DDR SDRAM memory (DDR 333[5]/266).
4. Three PCI slots: Expansion slots for custom system configurations and future add-in card upgrades.
5. Four Hi-Speed USB 2.0 ports: Two rear ports and one header for two front-panel USB 2.0 ports.
6. Two ATA 100/66 connectors: Enables fast IDE interface for transfers to storage devices.
7. Integrated Intel® PRO 10/100 Network Connection: Onboard 10/100-Mbps Ethernet LAN connectivity.
8. AC'97 Audio: Integrated two-channel audio providing audio performance at an excellent value.
9. Intel® Rapid BIOS Boot: Reduced boot time enables fast system access.





Intel® Desktop Board D845GVFN

TECHNICAL SPECIFICATIONS

Desktop Board Specifications

Processors Supported (via mPGA478 connector)	• Intel® Celeron® processors with 400-MHz system bus[1] • Intel® Celeron® D processors with 533-MHz system bus[2] • Intel® Pentium® 4 processors with 533-MHz or 400-MHz system bus[3]
Intel® 845GV Chipset	• Intel® 82801DB I/O Controller Hub (Intel® ICH4) with Accelerated Hub Architecture bus • Intel® 82802AB Firmware Hub (FWH)
Intel® ICH4 I/O Controller Hub	• Ultra ATA 100/66 • Intel® PRO 10/100 Network Connection
I/O Features	• Integrated super I/O LPC bus controller • Three PCI local bus slots
USB 2.0	• Two back-panel ports • Two ports routed to one onboard header (requiring cable to front panel)

Firmware Hub

System BIOS	• 3-Mb Flash EEPROM with Intel®/AMI* BIOS featuring Plug and Play, IDE drive auto-configure • Advanced configuration and power interface V1.0b, DMI 2.0, multilingual support
Intel® Rapid BIOS Boot	• Optimized POST for fast access to PC from power-on

System Memory

Memory Capacity	• Two 184-pin DIMM connectors supporting up to two double-sided DIMMS • Designed to support up to 2 GB[4] (based on 512-Mb technology) dual-channel of DDR 333[5]/266 SDRAM
Memory Type	• DDR 333[5] SDRAM • DDR 266 SDRAM
Memory Modes	• Single-channel operation support
Memory Voltage	• 2.5V

Wake-Up From Network

	• Wired for Management (WfM) 2.0 compatible • Support for system wake up using an add-in network interface card with remote wake-up capability or PCI

Expansion Capabilities

	• Three PCI bus add-in card connectors

Jumpers and Front-Panel Connectors

Jumpers	• Single configuration jumper design • Jumper access for BIOS configuration mode
Front-Panel Connectors	• Reset, HD LED, Power LEDs, power on/off, aux LED • USB header • Audio header (AA#C77646-105 only)

Mechanical

Board Style	• µATX 1.1-compliant board size
Board Size	• 9.2" x 8.2" (23.4 cm x 20.8 cm)

Baseboard Power

Requirements	• ATX12V or SFX12V

Environment

Operating Temperature	• 0° C to +55° C
Storage Temperature	• -40° C to +70° C

Regulations

Safety Regulations	
U.S. and Canada	UL 1950, Third edition—CAN/CSA C22.2 No. 950-95 with recognized U.S. and Canadian component marks
Europe	Nemko certified to EN 60950
International	Nemko certified to IEC 60950 (CB report with CB certificate)

EMC Regulations (tested in representative chassis)

U.S.	FCC Part 15, Class B
U.S.	FCC Part 15, Class B open-chassis (cover off) testing
Canada	ICES-003, Class B
Europe	EMC directive 89/336/EEC; EN 55022:1998 Class B; EN 55024:1998
Australia/New Zealand	AS/NZS 3548, Class B
Taiwan	CNS 13438, Class B
International	CISPR 22:1997, Class

Power requirements vary.

Ordering Information

See Intel's Web site at www.intel.com
For the most current product information available, visit Intel's Web site at:
developer.intel.com/design/motherbd/

[1] Intel® Desktop Board D845GVFN designed to support Intel® Celeron® processors (2 GHz or higher), as well as the 1.8a GHz in the 478-pin package.

[2] Intel® Desktop Board D845GVFN designed to support Intel® Celeron® D processor 320–340[+] (2.40–293GHz with 533-MHz system bus in the 478-pin package).

[3] Intel® Desktop Board D845GVFN designed to support Intel® Pentium® 4 processors (1.60a, 2a, 2.26 GHz or higher) with 533-MHz or 400-MHz system bus in the 478-pin package.

[4] Intel® Desktop Board D845GVFN designed to support up to 2-GB DDR SDRAM memory based on 512-Mb technology. For information on the latest validated memory support, visit http://developer.intel.com/design/motherbd/

[5] DDR 333 SDRAM memory is not supported in combination with Intel® Pentium® 4 processors or Intel® Celeron® processors with 400-MHz system bus. DDR 333 memory will run at 266 MHz.

[6] All orders for Intel® Desktop Board D845GVFN are non-cancelable and non-returnable, will not be eligible for inventory price protection and stock rotation, and will be eligible only for Standard Warranty Replacement. Advanced Warranty Replacement will not apply.

[+] Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

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