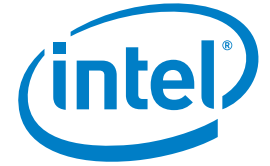


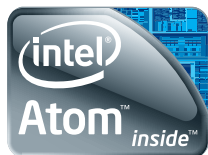
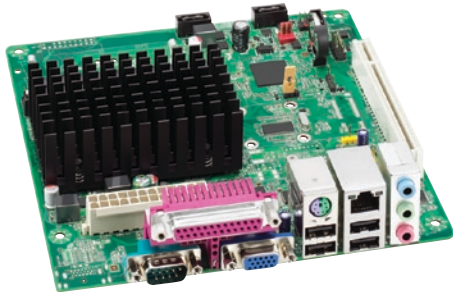
PRODUCT BRIEF

Intel® Desktop Board D2500HN  
Innovation Series



Mini-ITX Form Factor

# Intel® Desktop Board D2500HN Innovation Series



The Intel® Desktop Board D2500HN is the latest Innovation Series board that optimizes the performance of the Intel® Atom™ processor D2500 and the Intel® NM10 Express Chipset by delivering new-generation technologies, value-added features, and easy integration. The Intel Desktop Board D2500HN is suitable for basic computing and powerful enough to enable a rich Internet experience.

The Intel Desktop Board D2500HN features the new integrated dual-core 1.86 GHz Intel Atom processor D2500. This processor supports Intel® Graphics Media Accelerator 3600, an improved graphics core that supports high-definition video playback capabilities compared with the previous-generation entry-level desktop PC. This

board provides flexibility and upgradability with two single-channel SODIMM connectors for DDR3 1066 / 800 MHz memory support (4 GB<sup>1</sup> max). The use of SODIMM memory modules delivers greater performance and power efficiency. The revolutionary two-chip layout continues to enable lower power consumption and saves 70 percent of its board layout size. This results in a board that has better heat flow with the passive thermal solution.

The Intel Desktop Board D2500HN provides enhanced features such as 10/100/1000 Mb/s integrated LAN, integrated four-channel Intel® High Definition Audio<sup>2</sup>, and support for legacy features for emerging market needs, including a PS/2 port, serial port, and parallel port. Supporting a USB Solid-State Drive keep-out zone design, the

Intel Desktop Board D2500HN is ideal for diskless usage model by integrating the USB Solid-State Drive inside the chassis.

The Intel Desktop Board D2500HN is a mini-ITX form factor board. Backward-compatible with ATX and microATX, this form factor allows you to build green, energy-efficient, small form factor solutions. This board offers simple, affordable, Internet-centric computer designs in a compact 170mm x 170mm size—perfect for a cool system with a small form factor chassis.

Available at an affordable price, the Intel Desktop Board D2500HN is ideal for innovative small form factor systems for basic computing and thin-client systems.



## Intel® Desktop Board D2500HN Innovation Series

### The boxed Intel® Desktop Board D2500HN solution includes:

- ATX 2.2 compliant I/O shield
- SATA cables
- Board and back panel I/O layout stickers
- Quick reference guide
- Intel® Express Installer driver and software DVD
- Microsoft\* Windows\* 7 WHQL certified

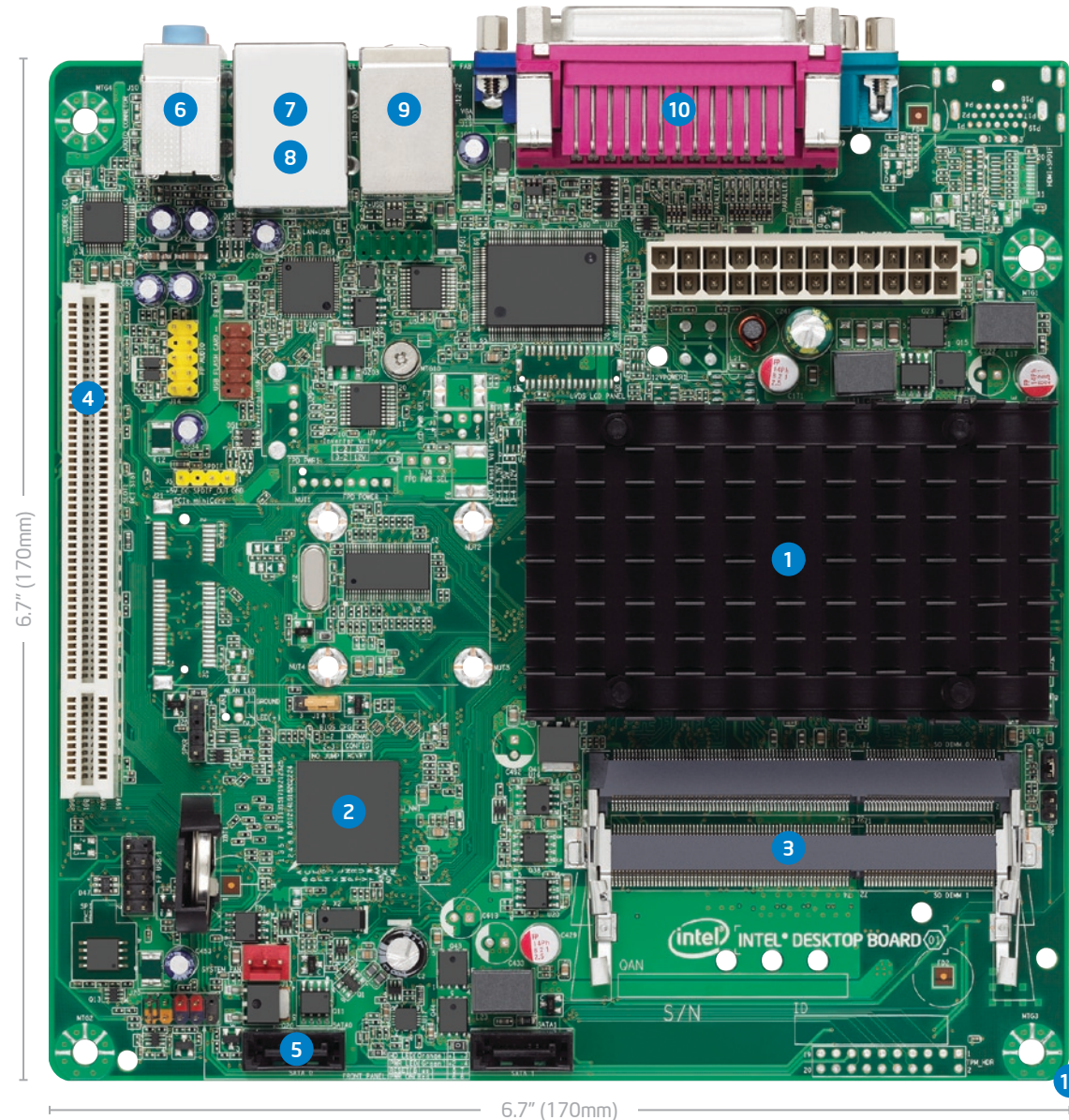
### The takeaway software included with the Intel® Desktop Board D2500HN works best for your everyday computing.

CAPABILITY	SOFTWARE INCLUDED:
Productivity	<ul style="list-style-type: none"><li>▪ Intel AppUp<sup>SM</sup></li><li>▪ Intel® Integrator Assistant (Internet Download)</li><li>▪ Laplink* PCmover Express*</li></ul>
Entertainment	<ul style="list-style-type: none"><li>▪ DivX* for Windows*</li></ul>
Antivirus	<ul style="list-style-type: none"><li>▪ ESET* Smart Security 4 (45-day license)</li></ul>

# Intel® Desktop Board D2500HN Innovation Series

## Features and Benefits

- 1 Integrated with the new dual-core Intel® Atom™ processor D2500:** Features an integrated graphics core (Intel® GMA 3600) with high-definition graphics performance improvements.
- 2 Intel® NM10 Express Chipset:** Designed to support the new Intel® Atom™ processor D2500.
- 3 Single-channel DDR3 with two connectors for 1066 / 800 MHz memory support (4 GB<sup>1</sup> max)**
- 4 One PCI connector:** Expansion connector for custom system configurations and future add-in card upgrades.
- 5 Two SATA ports (3.0 Gb/s)**
- 6 Four-channel Intel® High Definition Audio<sup>2</sup>:** Integrated stereo audio at an excellent value.
- 7 Integrated 10/100/1000 Mb/s Network Connection**
- 8 Eight Hi-Speed USB 2.0 ports:** Four back panel ports and four additional ports via internal header.
- 9 PS/2 port:** Supports keyboard or mouse.
- 10 Parallel and serial ports:** Provide legacy device compatibility.
- 11 Mini-ITX / microATX-compatible form factor**



# Intel® Desktop Board D2500HN Innovation Series

## Technical Specifications

For ordering information, visit [www.intel.com](http://www.intel.com)

For the most current product information, visit <http://developer.intel.com/products/desktop/motherboard/>

### PROCESSOR

#### Processor Support

- Intel® Atom™ processor D2500 (dual-core / 1.86 GHz / 512 KB x 2 L2 cache)

### CHIPSET

- Intel® NM10 Express Chipset

### Graphics

- Intel® Graphics Media Accelerator 3600
- One VGA port

### I/O Controller

- Two SATA ports (fully shrouded)
- One PS/2 port
- One serial header
- One serial port
- One parallel port

### USB 2.0

- Four external ports
- Four ports via headers

### Audio Solution

- 2+2 channel Intel® High Definition Audio<sup>2</sup> (with multi-streaming)
- Front-panel mic / headphone header

### 10/100/1000 Network Connection

- Intel® 82574L 10/100/1000 Mb/s Ethernet Controller

### System BIOS

- 8 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play, IDE drive auto-configure
- Advanced configuration and power interface V2.0b, DMI 2.0, multilingual support
- Serial Peripheral Interface (SPI) Flash

### Fast Boot BIOS

- Optimized POST for almost instant-on access to PC from power-on

### SYSTEM MEMORY

#### Memory Capacity

- Single-channel DDR3 with two connectors for 1066 / 800 MHz memory support (4 GB<sup>1</sup> max)

#### Memory Types

- DDR3 1066 / 800 SDRAM memory support
- Non-ECC Memory

#### Memory Voltage

- 1.8 V

#### 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

#### Expansion Capabilities

- One PCI connector

### JUMPERS AND FRONT PANEL CONNECTORS

#### Jumpers

- Jumper: yellow
- Header: black

#### Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off, aux LED
- USB 2.0 headers
- Audio header

### MECHANICAL

#### Board Style

- Mini-ITX / microATX-compatible
- 170mm x 170mm

#### Baseboard Power Requirements

- ATX12V or SFX12V

### ENVIRONMENT

#### Operating Temperature

- 0°C to +50°C

#### Storage Temperature

- 20°C to +70°C

### REGULATIONS AND SAFETY STANDARDS

#### United States and Canada

- UL 60950-1

#### Canada

- CAN / CSA-C22.2 No. 60950-1

#### Europe

- (Low Voltage Directive 2006/95/EC)
- EN 60950-1

#### International

- IEC 60950-1

#### EMC Regulations (Class B)

#### United States

- FCC CFR Title 47, Chapter I, Part 15, Subparts A / B

#### Canada

- ICES-003

#### Europe

- (EMC Directive 2004/108/EC)
- EN 55022 and EN 55024

#### Australia/New Zealand

- EN 55022

#### Japan

- VCCI V-3, V-4

#### South Korea

- KN-22 and KN-24

#### Taiwan

- CNS 13438

#### International

- CISPR 22

#### Environmental Compliance

#### Europe

- Europe RoHS (Directive 2002/95/EC)

#### China

- China RoHS (MII Order # 39)

<sup>1</sup> System resources and hardware (such as PCI and PCI Express\*) require physical memory address locations that can reduce available addressable system memory. This could result in a reduction of as much as 1 GB or more of physical addressable memory being available to the operating system and applications, depending on the system configuration and operating system.

<sup>2</sup> Intel® High Definition Audio requires a system with an appropriate Intel® chipset and a motherboard with an appropriate codec and the necessary drivers installed. System sound quality will vary depending on actual implementation, controller, codec, drivers, and speakers. For more information about Intel® HD Audio, refer to [www.intel.com/design/chipsets/hdaudio.htm](http://www.intel.com/design/chipsets/hdaudio.htm)

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