



**MicroATX Form Factor** 

# Intel<sup>®</sup> Desktop Boards DQ35JO and DQ35MP Executive Series

## For the Intel® Core™2 Quad and Intel® Core™2 Duo Processors

A powerful processor demands a powerful motherboard. Intel® Desktop Boards optimize the performance of Intel® processor technology while delivering access to next-generation technologies, value-added features, and easy integration.

Intel® Desktop Boards DQ35JO and DQ35MP

and Intel<sup>®</sup> vPro<sup>™</sup> processor technology

• Feature the Intel® Q35 Express Chipset

Windows Vista\* Premium capable

measurable advantages.

Proactive security

Integrated Trusted Platform Module

Supports Intel<sup>®</sup> Core<sup>™</sup>2 Quad and Intel<sup>®</sup> Core<sup>™</sup>2 Duo processors

Intel<sup>®</sup> Desktop Boards Executive Series support Intel<sup>®</sup> vPro<sup>™</sup> processor technology and deliver

The Trusted Platform Module provides hardware-based security

to help stop threats and protect critical information.

### Energy-efficient performance

Run applications with amazing responsiveness while reducing energy use and system noise.

#### Remote manageability

Intel® Active Management Technology, along with leading IT management software, allows remote inventory of PCs, troubleshooting, and system restore to reduce the number of desk-side visits.

For complete list of solutions and opportunities, visit intel.com/reseller/vpro and msp.intel.com.



# Intel<sup>®</sup> Desktop Boards DQ35JO and DQ35MP



# The boxed Intel<sup>®</sup> Desktop Boards DQ35JO and DQ35MP solutions include:

- MicroATX 2.2 Compliant I/O Shield
- SATA and ATA 100/66 Cables
- eSATA Cable Bracket (DQ35JO only)
- Board and Back Panel I/O Layout Stickers
- Quick Reference and Product Guides
- Intel® Express Installer Driver and Software DVD
- Windows Vista\* Premium WHQL certified

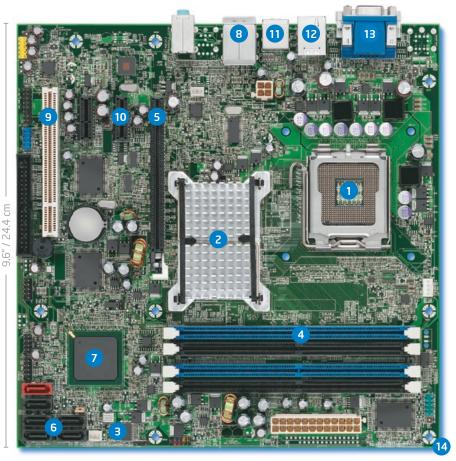
#### Intel® Desktop Boards Executive Series include an extensive list of software that supports and enhances capabilities for the digital office.

CAPABILITY	SOFTWARE INCLUDED:
Utilities	<ul> <li>Intel<sup>®</sup> Desktop Utilities</li> </ul>
Anti-virus	<ul> <li>Norton AntiVirus*</li> <li>Kaspersky* Anti-Virus (Russian)</li> <li>Kingsoft* Antivirus (Chinese)</li> </ul>
Communication	<ul><li>Skype*</li><li>Typepad*</li></ul>
Data Protection	<ul> <li>Diskeeper* 9 Home Edition</li> </ul>
Manageability	<ul> <li>SyAM* System Client</li> </ul>
Security	Wave* EMBASSY* Trust Suite

### Features and Benefits Intel® Desktop Boards DQ35JO and DQ35MP

- 1 Support for the Intel® Core™2 Quad and Intel® Core™2 Quad processors Features quad-core and dual-core processing with 1333 / 1066 / 800 MHz system bus in the LGA775 package.
- 2 Intel® Q35 Express Chipset: Offers a new level of visual quality with integrated Intel® Graphics Media Accelerator X3100 (Intel® GMA X3100) with Intel® Clear Video Technology.
- **3 Trusted Platform Module 1.2:** Hardware-based encryption to protect sensitive data.
- 4 Dual-Channel DDR2 800 / 667 memory support: Four DIMM sockets, designed to support up to 8 GB<sup>1</sup> of DDR2 800 / 667 SDRAM memory, delivering greater platform performance and flexible memory support.
- 5 PCI Express\* x16 graphics connector: Increases graphics bandwidth and provides up to 4 GB/s per direction.
- 6 Six Serial ATA ports including eSATA (3.0 Gb/s): Facilitates high-speed storage and data transfers at up to 3 Gb/s for each of six ports.
- 7 Intel® Matrix Storage Technology: RAID 0, 1, 10, and 5 for higher performance data access and/or data protection.

- 8 Intel® 82566DM Gigabit Ethernet Controller with Intel® Active Management Technology Specification 3.0
- 9 One PCI connector: Provides expansion slots for custom system configurations and future add-in card upgrades.
- 10 Two PCI Express\* x1 connectors: Designed for bandwidth-intensive applications, PCI Express\* x1 I/O offers up to 3.5 times the bandwidth over traditional PCI architecture.
- **11 Up to 12 Hi-Speed USB 2.0 ports:** Provides six back panel ports and an additional six USB ports via three internal headers.
- 12 Up to 1394a ports: (DQ35JO Only) One back panel port and one internal header (for an additional port) enable data transfer from consumer electronic devices such as digital camcorders and MP3 players.
- 13 Intel<sup>®</sup> Graphics Media Accelerator X3100 (Intel<sup>®</sup> GMA X3100): DQ35JO: DVI-D and VGA DQ35MP: VGA
- 14 MicroATX form factor



9.6" / 24.4 cm

DQ35|O board shown

#### Technical Specifications Processor

- **Processor Support**
- Intel<sup>®</sup> Core<sup>™</sup>2 Quad and Intel<sup>®</sup> Core<sup>™</sup>2 Duo processors in the LGA775 package
- Supports Intel<sup>®</sup> 64 Architecture

#### Chipset

- Intel® Q35 Express Chipset
- Intel® 82Q35 Graphics Memory Controller Hub (GMCH)
- Intel<sup>®</sup> 82801 IDO I/O Controller Hub (ICH9DO)
- Intel® Active Management Technology Architecture Specification 3.0
- Intel<sup>®</sup> Matrix Storage Technology (RAID 0, 1, 5, 10) with Intel<sup>®</sup> Rapid Recover Technolgoy
- Intel<sup>®</sup> Fast Memory Access

#### Graphics Memory Controller Hub (GMCH)

- Designed to support up to 8 GB<sup>1</sup> of system memory using DDR2 800 / 667 SDRAM memory
- Intel<sup>®</sup> Fast Memory Access
- Intel® Graphics Media Accelerator X3100 with Intel® Clear Video Technology
- DVI-D and VGA integrated graphics— DQ35JO only

#### Intel<sup>®</sup> I/O Controller Hub

- Supports two Ultra ATA 100 / 66 devices
- Six SATA (3.0 Gb/s) ports with port multiplier, including one eSATA port
- Intel® PRO 10 / 100 / 1000 network connection

Ordering Information: See the Intel Web site at www.intel.com.

of memory being available to the operating system and applications.

\*Other names and brands may be claimed as the property of others. Copyright ° 2007 Intel Corporation. All rights reserved. 0707/MS/NW/PDF

For the most current product information and ordering information visit intel.com/go/idb

#### USB 2.0

Integrated Intel<sup>®</sup> ICH9DO controllers:

- Six back-panel ports (three dual-stack)
- · Six additional ports (via three headers)

#### System BIOS

- 32 Mb Flash EEPROM with Intel® Platform Innovation Framework for EFI Plug and Play, IDE drive auto-configure
- Advanced configuration and power interface V1.0b, DMI 2.0, multilingual support

#### Intel<sup>®</sup> Rapid BIOS Boot

- Intel<sup>®</sup> Rapid BIOS Boot
- Intel<sup>®</sup> Express BIOS Update support

#### System Memory

#### Memory Capacity

 Four 240-pin DIMM connectors supporting up to four double-sided DIMMs

#### Memory Types

- DDR2 800 / 667 SDRAM memory support
- Non-ECC Memory

#### Memory Modes

Dual- or single-channel operation support

#### Memory Voltage

#### • 1.8V

#### Hardware Management Features

- Processor fan speed control
- System chassis fan speed control
- Voltage and temperature sensing
- Fan sensor inputs used to monitor fan activity

# Power management support for ACPI 1.0b High-performance Intel<sup>®</sup> 82566DM Gigabit Ethernet

- High quality and reliability with Intel's worldclass manufacturing and validation
- Supports Intel® vPro" Processor Technology based software and applications added security and manageability

<sup>1</sup> System resources (such as PCI and PCI Express\*) require physical memory address locations that reduce available memory addresses above 7 GB. This may result in less than 8 GB

Desktop PCs with Intel® vPro™ technology and Intel® 64 architecture (Intel® 64) require a computer system with a processor, chipset, BIOS, enabling software and/ or operating system, device drivers, and applications designed for these features. Performance will vary depending on your configuration. Use of Intel® Active Management Technology (Intel® AMT) and Intel® Virtualization Technology (Intel® VT) with this desktop board will require networking software, connection with a power source, and a network connection for Intel AMT, as well as an enabled Intel® processor, BIOS, virtual machine monitor (VMM), and for some uses, certain platform software enabled for Intel VT. Contact your vendor for more information.

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#### **Expansion Capabilities**

- One PCI bus add-in card connector
- Two PCI Express\* x1 bus add-in card connectors
- One PCI Express\* x16 graphics connector
- Two IEEE 1394a ports (1 external port, 1 internal header)–*DQ35/O only*

#### Audio

## 2+2 channel Intel<sup>®</sup> HD audio codec Jumpers and Front-Panel Connectors

#### Jumpers

- Single configuration jumper design
- Jumper access for BIOS maintenance mode

#### Front-Panel Connectors

- Reset, HD LED, Power LEDs, power on/off
- Three front-panel Hi-Speed USB 2.0 headers
- One 1394a header-DQ35JO only
- Front-panel audio header
- One serial header
- Mechanical

#### Board Style

MicroATX 2.2-compliant

#### **Board Size**

• 9.6" x 9.6" (24.38 cm x 24.38 cm)

#### **Baseboard Power Requirements**

ATX12V

#### Environment

#### Operating Temperature

0° C to +55° C

#### Storage Temperature

-40° C to +70° C

#### Regulations and Safety Standards

United States and Canada CSA/UL 60950-1, First Edition (Binational Standard)

#### Europe

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

#### International

IEC 60950-1:2001, First Edition

#### EMC Regulations

(tested in representative chassis)

United States FCC 47 CFR Part 15, Subpart B

Canada

ICES-003 Class B

#### Europe

(EMC Directive 2004/108/EC) EN 55022:2006 and EN 55024:1998

#### Australia/New Zealand

EN 55022:2006 Class B

#### Japan

VCCI V-3/04.04, V-4/03.04, Class B

#### South Korea

KN-22:2005 and KN-24:2005 Taiwan

CNS 13438:2006 Class B

#### International

China

CISPR 22:2005 +A1:2005 +A2:2006 Class B

Lead-Free: The symbol is used

to identify electrical and electronic

the lead (Pb) concentration level in

assemblies and components in which

(intel)

Europe RoHS (Directive 2002/95/EC)

any of the raw materials and the end product is

symbol is also used to indicate conformance to lead-free requirements and definitions adopted under the European Union's Restriction on Hazardous Substances (RoHS) directive, 2002/95/EC.

not greater than 0.1% by weight (1000 ppm). This

#### **Environmental Compliance**

Europe

China RoHS (MII Order # 39)