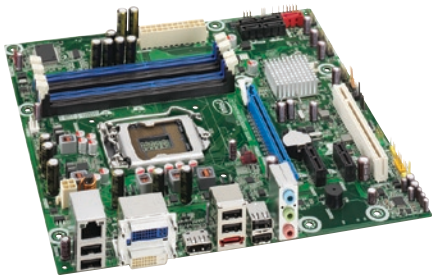
PRODUCT BRIEF
Intel® Desktop Board DQ57TM
Executive Series

MicroATX Form Factor

Intel® Desktop Board DQ57TM Executive Series



The best business solutions combine great hardware and software that help businesses achieve maximum productivity at lower costs. The Intel® Desktop Board DQ57TM brings all of these things together in an easy-to-integrate and energy-efficient package.

Intel® Desktop Board DQ57TM

- Supports the Intel® Core™ i7 and Intel® Core™ i5 processors in the LGA1156 package.
- Features the Intel® Q57 Express Chipset.
- Microsoft* Windows* 7 and Windows Vista* Premium capable.
- Supports Intel® vPro™ technology.[1]

Intel® Desktop Boards Executive Series support Intel® vPro™ technology and deliver measurable advantages.

Proactive security

- Trusted Platform Module[1] provides hardware-based security to help stop threats and protect critical information.

Remote manageability

- Intel® Active Management Technology (Intel® AMT[1]), along with leading IT management software, allows remote inventory of PCs, troubleshooting, and system restore—even if the operating system is down—reducing the number of desk-side visits and increasing your company's productivity.
- Intel® Remote PC Assist Technology[2] utilizes Intel AMT to offer an easy way to connect to a qualified service provider for remote diagnosis and repair. It is ideal for businesses with outsourced IT support.

Unique software bundle

- The award-winning ESET* Smart Security software delivers the fastest, most effective antivirus software with spyware and malware protection to combat viruses, spyware, and other Internet attacks, keeping your identity and data safe from hackers and thieves for one year.
- The Laplink* PCmover* award-winning bundle allows for easy migration of programs, files, and settings from your old PC to your new PC.

Eco-smart computing

- When the Intel Q57 Express Chipset is paired with an Intel Core i7 or Intel Core i5 processor, the Intel Desktop Board DQ57TM runs applications with amazing responsiveness while lowering energy usage costs.
- The Intel Desktop Board DQ57TM meets the ENERGY STAR* and EuP specifications and is RoHS-compliant.

Intel® Desktop Board DQ57TM Executive Series

The boxed Intel® Desktop Board DQ57TM solution includes:

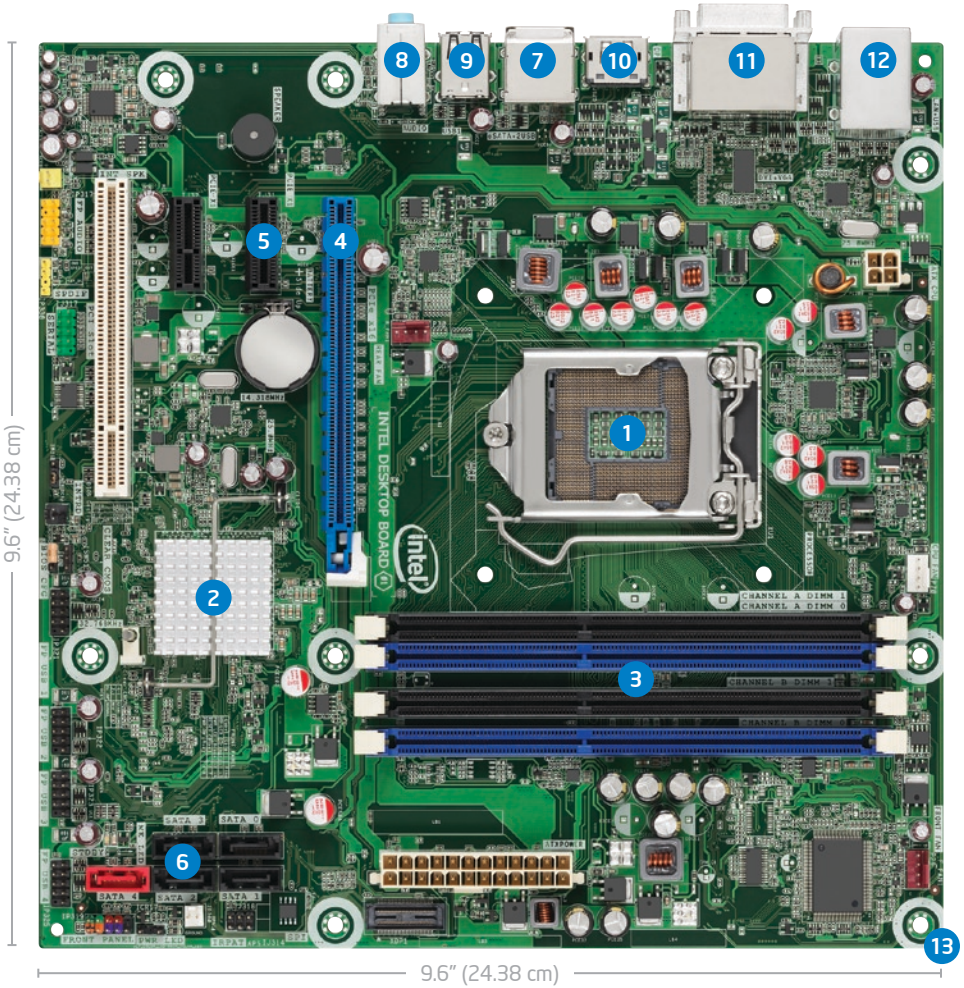
- ATX 2.2 compliant I/O shield
- SATA cables
- DVI to VGA adapter
- Board and back panel I/O layout stickers
- Quick reference and product guides
- Intel® Express Installer driver and software DVD
- Microsoft* Windows* 7 and Windows Vista* Premium WHQL certified

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

CAPABILITY	SOFTWARE INCLUDED
Utilities	▪ Intel® Desktop Utilities (Internet Download)
Security	▪ ESET* Smart Security (One-year License)
Manageability	▪ Intel® Remote PC Assist Technology[2] Client Agent (Internet Download) ▪ Spiceworks* IT Desktop (Internet Download)
Productivity	▪ Intel® Integrator Assistant (Internet Download) ▪ Intel® IT Director (Internet Download) ▪ Laplink* PCmover*

Intel® Desktop Board DQ57TM Executive Series
Features and Benefits

1. **Supports the Intel® Core™ i7 and Intel® Core™ i5 processors:** Features quad-core and dual-core processors in the LGA1156 package.
2. **Intel® Q57 Express Chipset in a single chipset design:** Revolutionary new single chip increases routing space for additional onboard features and lower power consumption.
3. **Dual-channel DDR3 with four connectors for 1333 / 1066 MHz memory support (16 GB[3] max):** Four DIMM connectors are directly connected to the processor via the Integrated Memory Controller.
4. **One PCI Express* 2.0 x16 graphics connector:** Increases graphics bandwidth up to 8 Gb/s per direction.
5. **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.
6. **Four SATA ports (3.0 Gb/s):** Facilitate high-speed storage and data transfers with Intel® Rapid Storage Technology for RAID 0, 1, 5, and 10.
7. **Two eSATA ports (3.0 Gb/s, one back panel port and one via internal header):** Allow for the large addition of external mass storage using either single hard drives or SATA enclosures.
8. **Six-channel Intel® High Definition Audio[5]**
9. **Fourteen USB 2.0 ports:** Provides six back panel ports and an additional eight USB ports via internal headers.
10. **DisplayPort[4]:** The next generation in high-performance digital connectivity, delivering high-resolution digital display and digital audio.
11. **Dual DVI (DVI-I and DVI-D)[4]**
12. **Intel® PRO 10/100/1000 Network Connection**
13. **MicroATX form factor**



Intel® Desktop Board DQ57TM Executive Series
Technical Specifications

For ordering information, visit **www.intel.com**

For a complete list of solutions and opportunities, visit **www.intel.com/go/upgradesreseller** or **www.intel.com/go/idb**

PROCESSOR
Processor Support
- Intel® Core™ i7 and Intel® Core™ i5 processors in the LGA1156 package
- Supports Intel® 64 architecture[6]

CHIPSET
Intel® Q57 Express Chipset
- Intel® 82Q57 Platform Controller Hub (PCH)

USB 2.0
Integrated Intel® PCH controllers
- Six ports accessible via back panel
- Eight additional ports via internal ports
- Four SATA ports
- Two eSATA ports

System BIOS
- 64 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® Express BIOS Update support

SYSTEM MEMORY
Memory Capacity
- Four 240-pin DIMM connectors supporting up to four double-sided DIMMs

Memory Types
- DDR3 1333 / 1066 SDRAM memory support
- Non-ECC Memory

Memory Modes
- Dual- or single-channel operation support

Memory Voltage
- 1.2 V to 1.7 V

Hardware Management Features
- Processor fan speed monitor and control
- System chassis fan speed monitor and control
- Voltage and temperature sensing

Intel® 82567LM ENERGY STAR*-ready 10/100/1000 Network Connection
- High-quality and reliability with Intel's world-class manufacturing and validation

Expansion Capabilities
- One PCI bus add-in card connector
- One PCI Express* 2.0 x16 graphics connector
- Two PCI Express x1 add-in card connectors

Audio
- Six-channel Intel® High Definition Audio[5] codec

JUMPERS AND FRONT-PANEL CONNECTORS
Jumpers
- Jumper access for BIOS maintenance mode

Front-Panel Connectors
- Reset, HDD LED, Power LEDs, power on / off
- Front-panel Hi-Speed USB 2.0 headers
- Front-panel audio 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
- ATX 12 V

ENVIRONMENT
Operating Temperature
- 0° C to +55° C

Storage Temperature
- -20° 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
CISPR 22:2005 +A1:2005 +A2:2006 Class B

Environmental Compliance
Europe
Europe RoHS (Directive 2002 / 95 / EC)

China
China RoHS (MII Order # 39)

Lead-Free: The symbol is used to identify electrical and electronic assemblies and components in which the lead (Pb) concentration level in any of the raw materials and the end product is not greater than 0.1% by weight (1000 ppm). This 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.

[1] Use of Intel® vPro™ technology requires a supported Intel® processor.

[2] Intel® Remote PC Assist Technology requires the computer to have a BIOS, Intel® Chipset, and firmware with Intel® Remote PC Assist Technology enabled, Intel® network hardware, as well as connection with a power source and the Internet. This service requires a direct, external Internet connection (no proxy server). A remote service provider supporting Intel® Remote PC Assist Technology must be used to perform technical support. The Intel® Remote PC Assist Technology Client Agent must be deployed on the target computer running one of the supported operating systems in order to connect to the remote service provider. Use of the technology may require configuration by the purchaser. Intel® Remote PC Assist Technology is not available in all geographies or on all computer systems.

[3] 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.

[4] Requires the use of a processor with Intel® Graphics Technology.

[5] 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

[6] 64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers, and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See http://developer.intel.com/technology/intel64/index.htm for more information.