MicroATX Form Factor

Intel® Desktop Board
DQ57TML Executive Series

The Intel® Desktop Board DQ57TML, a business platform featuring Intel® vPro™ technology, yields maximum productivity at a lower cost. Retaining legacy PC features, the Intel Desktop Board DQ57TML finds a home for your peripherals while enabling the cutting-edge PC manageability and protection capabilities.

Intel® Desktop Board DQ57TML
• 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
• Legacy peripheral connectors, including a parallel port, PS/2 port, VGA connector, floppy header, and serial header.

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

Proactive security
• Trusted Platform Module¹ provides hardware-based security to help stop threats and protect critical information.

Remote manageability
• Intel® Active Management Technology (Intel® AMT¹), 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.

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 award-winning Laplink® PCmover® 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 DQ57TML runs applications with amazing responsiveness while lowering energy usage costs.

• The Intel Desktop Board DQ57TML meets the ENERGY STAR® and EuP specifications and is RoHS-compliant.
The boxed Intel® Desktop Board DQ57TML 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.

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Intel® Desktop Board DQ57TML 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 GB² 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. Serial header

7. 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.

8. Parallel port: Provides legacy peripheral connectivity.

9. PS/2 port: Supports legacy mouse or keyboard connection.

10. Twelve USB 2.0 ports: Provides four back panel ports and an additional eight USB ports via internal headers.

11. Dual graphics ports (VGA + DVI-D)

12. Six-channel Intel® High Definition Audio³

13. Intel® PRO 10/100/1000 Network Connection

14. MicroATX form factor
Intel® Desktop Board DQ57TML Executive Series
Technical Specifications

### Processor
- **Processor Support**
  - Intel® Core™ i7 and Intel® Core™ i5 processors in the LGA1156 package
  - Supports Intel® 64 architecture
- **CHIPSET**
  - Intel® Q57 Express Chipset
  - Intel® 82Q57 Platform Controller Hub (PCH)

### Integrated Intel® PCH controllers
- Four ports accessible via back panel
- Eight additional ports via internal ports
- Four SATA 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
- New low-power design meets ENERGY STAR® 5.0 specifications

### Expansion Capabilities
- One PCI Express x1 add-in card connector
- One PCI Express® x2.0 x16 graphics connector
- Two PCI Express® x1 add-in card connectors

### Audio
- Six-channel Intel® High Definition Audio 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 (Binarational Standard)
  - EN 60950-1:2006
- **International**
  - EMC Regulations (tested in representative chassis)
  - FCC Part 15, Subpart B
  - ICES-003 Class B

### Canadian Regulations
- **Canada**
  - CAN/CSA C22.2 No. 60950-1-00
  - FCC Part 15, Subpart B

### European Compliance
- **Europe**

### Environmental Compliance
- **Europe**
  - RoHS Directive 2002 / 95 / EC
  - EN 60950-1:2006

### Electrical and Electronic Assemblies and Components
- **EMC directive**
  - EN 61000-3-2:2006
  - EN 61000-3-3:2008

### RoHS
- **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.

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1. Use of Intel® vPro™ technology requires a supported Intel® processor.
2. 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.
3. 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/haudio.htm
4. 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.xhtm for more information.

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