

Q57MX™

INDUSTRIAL mATX MOTHERBOARD SUPPORTS INTEL® CORE™ i3, i5, i7

Q57 CHIPSET DELIVERS BEST-IN-CLASS LEGACY SUPPORT,
AND INCREDIBLE HIGH PERFORMANCE

PRODUCT HIGHLIGHTS

- Intel Core™ i7 860 (2.8/3.46GHz), Intel Core i5 750 (2.66/3.2GHz), Intel Core i5 660 (3.33 / 3.6GHz), Intel Core i3 540 (3.06GHz)
- Two (2) PCI, Two (2) PCI-E slots
- Two (2) SATA2 ports supporting RAID 0/1 (any OS, no drivers needed)
- Five (5) SATA2 ports supporting Intel Matrix Storage RAID 0/1/5/10
- Intel Q57 Chipset
- Seven (7) to Ten (10) Year Guaranteed Production



The Q57MX™

is a long-life compact industrial motherboard supporting the newest Intel processors, while still providing a solid migration path for legacy users. The Q57MX motherboard was designed specifically for performance intensive embedded applications where space is at a premium and a small form factor design is required.

APPLICATIONS

- Medical
- Oil and Gas
- Security and Surveillance
- Industrial Automation
- Video Streaming / Broadcasting
- Military / Defense
- Infotainment
- Test and Measurement
- Industrial Computing Systems

This is our fastest MicroATX board to date, engineered to take advantage of some of the fastest processors currently available. However even in this smaller size, we designed in excellent legacy support for a solid upgrade path.

We've not only included onboard RAID 0/1/5/10 support, but we added something more, a second set of ports supporting driverless hardware RAID 0/1. Now any OS (even DOS or QNX) can be on a mirrored or striped array for performance or redundancy. Combine that with extras like dual Gigabit Ethernet ports, and dual DVI video outputs, and suddenly you've got one powerful, compact computer system.

Multiple I/O options include (2) PCI-E Gen 2.0 slots, (2) PCI expansion slots, (4) serial ports, (1) parallel port, and (14) USB ports provide ample support for peripherals in a time where extensive expansion capabilities are becoming extremely rare, particularly on compact, high-performance boards.



OUR COMMITMENT TO QUALITY

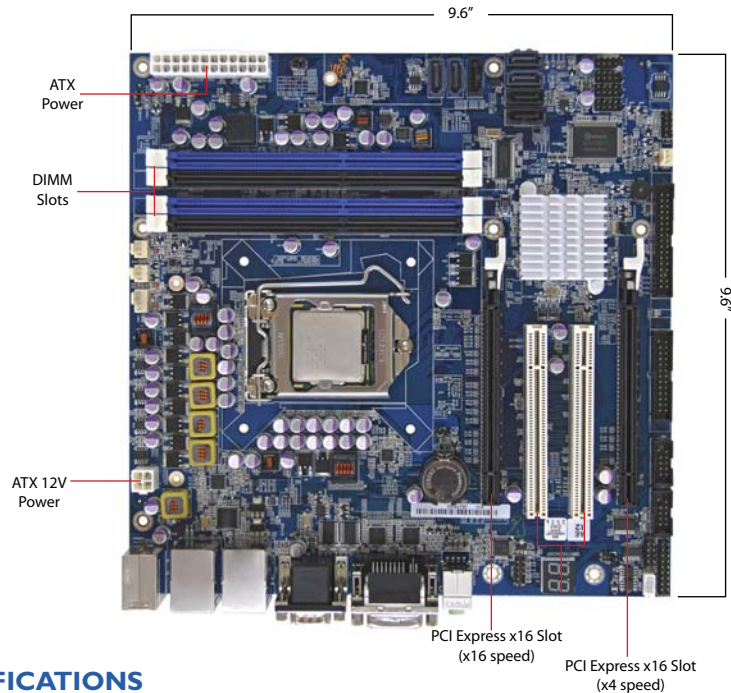
All Corvalent products are designed and carefully manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.



CORVALENT™
AT THE CORE OF EMBEDDED COMPUTING

Q57MX™

POWERFUL mATX MOTHERBOARD SUPPORTS INTEL® CORE™ i3, i5, i7



TECHNICAL SPECIFICATIONS

Form Factor	mATX	Ethernet	One (1) Intel 82578 Gigabit Ethernet (PHY) One (1) Intel 82574L Gigabit Ethernet (PHY/MAC) (PCIe x2)
Dimensions	9.6" x 9.6"	Audio	Realtek ALC888T HD Audio CODEC, Mic. in, Stereo Line Out jacks on I/O back-panel 10-pin HD Audio header for front panel audio connections.
Microprocessor	Intel Core™ i7 860* (2.8/3.46GHz/x4), Intel Core i5 750* (2.66/3.2GHz/x4), Intel Core i5 660 (3.33 / 3.6GHz/x2), Intel Core i3 540 (3.06GHz/x2)	Industrial Devices	POST code diagnostics display CPU temperature monitor Powered SATA ports (direct connection of solid state media, 100% backward compatible)
Chipset	Intel Q57	BIOS	AMI® BIOS on 64Mbit SPI
Mem. Bandwidth	21 Gb/s	Battery	Removable lithium battery for CMOS memory
Memory	DDR3 (1066/1333MHz) Dual channel, Unbuffered, memory up to 16GB maximum memory	Operating Temp	-10°C to 65°C
System Bus	One (1) PCI-E x16 graphics slot (x16 Gen 2.0) One (1) PCI-E x16 slot (x4 Gen 2.0) Two (2) PCI 2.3 32bit/33MHz slots	Non-Operating	-40°C to 70°C
Onboard I/O	Fourteen (14) USB 2.0 ports, six (6) External USB 2.0 ports on rear panel, eight (8) internal USB ports on 10-pin headers) Five (5) SATA2 3Gb/s ports supporting Intel Matrix Storage (chipset) RAID 0/1/5/10 Two (2) SATA2 3Gb/s ports supporting RAID 0/1 (Any OS, no drivers needed) Four (4) RS232 Serial port connectors (optional RS485 configurable on (1) port) One (1) Parallel port header Single PS/2 compatible keyboard/mouse connector on back panel One (1) Floppy controller header (1) ATX2.2 - 24-pin (2x12) power connector (1) 4-pin ATX12V power connector	Op. Humidity	5 to 95% non-condensing
Video Graphics	i7 and i5 750 processors do not support built-in video. The i5 660 and i3 540 CPUs support integrated Video via Dual DVI (DVI-I / DVI-D) rear panel ports. Max. resolution 2048x1536	Non-Operating	5 to 95% non-condensing
		Part Number	Q57MX

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