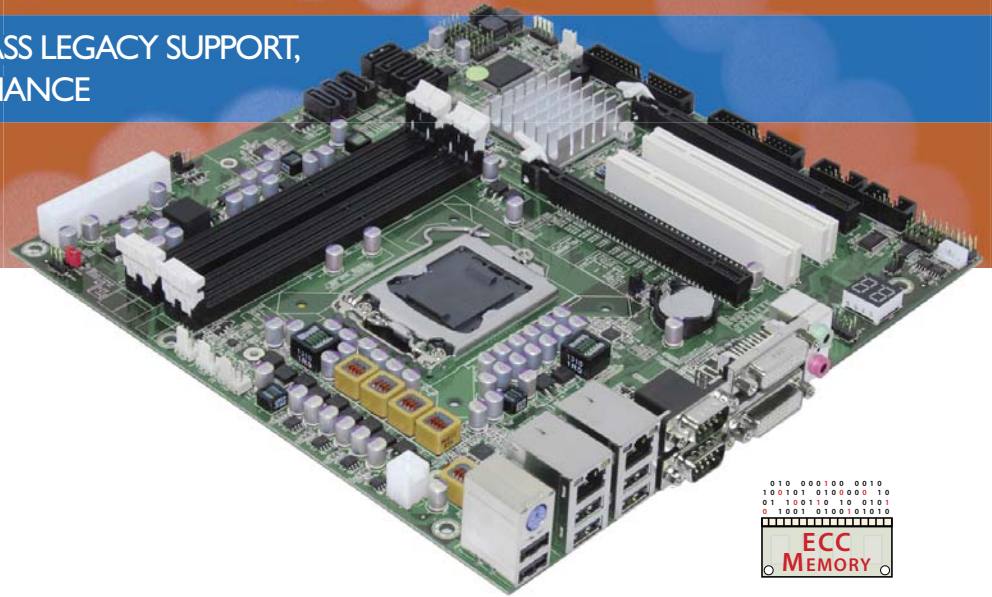


Q57MX™

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

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



PRODUCT HIGHLIGHTS

- Intel® Xeon® X3450 (2.66/3.2GHz), Intel Xeon X3430 (2.4/2.8GHz), 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
- 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.

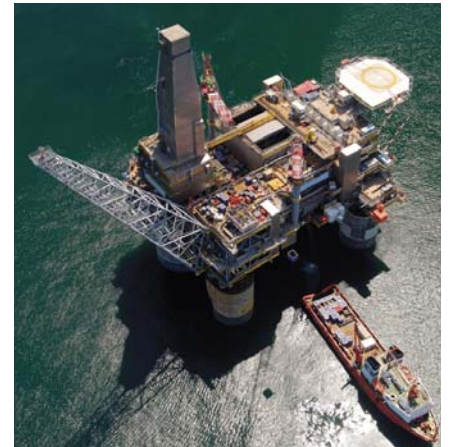
APPLICATIONS

- 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 Corvalent BIOS enabled ECC memory, dual Gigabit Ethernet ports, and dual DVI video outputs, and suddenly you've got one powerful, compact computer system.

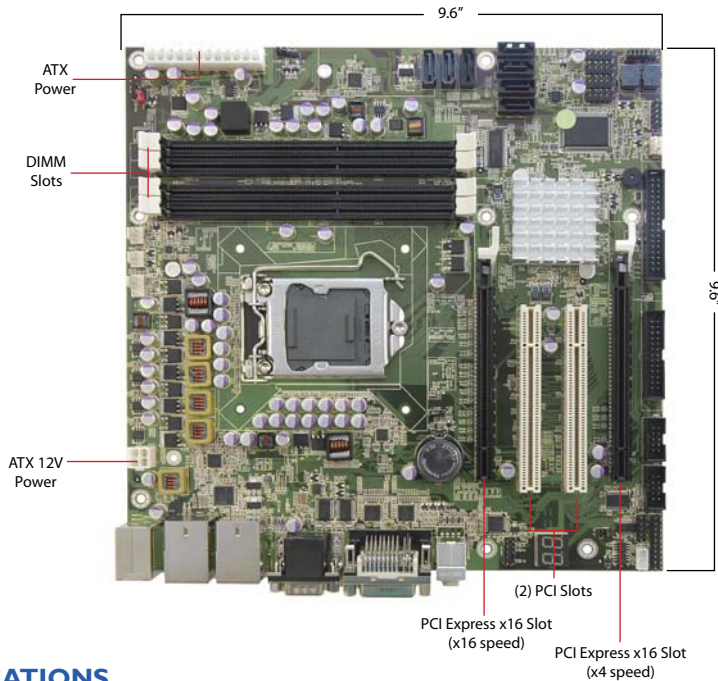
Multiple I/O options include (2) PCI-E Gen 2.0 slots, (2) PCI expansion slots, (4) serial ports, (1) parallel port, and (14) USB ports provide ample support for peripherals in a time where extensive expansion capabilities are becoming extremely rare, particularly on compact, high-performance boards.



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.





TECHNICAL SPECIFICATIONS

Form Factor	mATX	Video Graphics	<u>Xeon and i7 processors do not support built-in video.</u> Intel i5 and i3 processors provide Integrated Video via Dual DVI ports on the rear panel (DVI-I / DVI-D) Max. resolution 2048x1536
Dimensions	9.6" x 9.6"	Ethernet	One (1) Intel 82578 Gigabit Ethernet (PHY) One (1) Intel 82574L Gigabit Ethernet (PHY/MAC) (PCIe x2)
Microprocessor	Intel® Xeon® X3450* (2.66/3.2GHz/x4), Intel Xeon X3430* (2.4/2.8GHz/x4), 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)	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.
Chipset	Intel Q57	Industrial Devices	POST code diagnostics display CPU temperature monitor Powered SATA ports (direct connection of solid state media, 100% backward compatible)
Mem. Bandwidth	21 Gb/s	BIOS	AMI® BIOS on 64Mbit SPI
Memory	DDR3 (1066/1333MHz) Dual channel, Unbuffered, ECC (Xeon) or Non-ECC (i3/i5/i7), up to 32GB with Xeon processor. (16GB max with i3/i5/i7)	Battery	Removable lithium battery for CMOS memory
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	Operating Temp	0°C to 60°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	Non-Operating	-40°C to 70°C
		Op. Humidity	5 to 95% non-condensing
		Non-Operating	5 to 95% non-condensing
		Part Number	Q57MX



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