# Q77MX<sup>™</sup>

## INDUSTRIAL micro-ATX MOTHERBOARD SUPPORTS INTEL® CORE™ i3, i5, i7

Q77 CHIPSET DELIVERS BEST-IN-CLASS LEGACY SUPPORT, AND INCREDIBLE HIGH PERFORMANCE

#### **PRODUCT HIGHLIGHTS**

- Supports Intel® 3rd and 2nd generation Core™ i7, i5 and i3 CPUs in addition to Celeron™ and Pentium™ models
- One (I) PCI, three (3) PCI-E slots
- Four (4) SATA2 ports and two (2) SATA3 ports supporting Intel Matrix Storage RAID 0/1/5/10
- Intel Q77 Express Chipset
- Multi-display support via two (2) DVI and one (1) DisplayPort
- Seven (7) to Ten (10) Year Guaranteed Production



## The Q77MX™

is a long-life compact industrial motherboard supporting the new 3rd generation Intel processors, while still providing a solid migration path for legacy users. The Q77MX 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 highest-performance MicroATX board to date, engineered to take advantage of some of the fastest processors currently available. Even in this smaller size, we designed in excellent legacy support for a solid upgrade path.

We've included onboard RAID 0/1/5/10 support for SATA 2.0 and 3.0. With dual Gigabit Ethernet ports and built-in, multiple-monitor support, you've got one powerful compact computer system.

Multiple I/O options including (3) PCI-E slots, (1) PCI expansion slot, (6) serial ports, (1) parallel port and (14) USB ports provide ample support for peripherals in a time where extensive expansion capabilities, particularly for legacy PCI slots and serial ports, are becoming extremely rare 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 lifecycle guarantee.

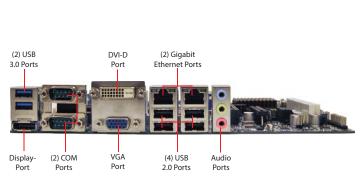


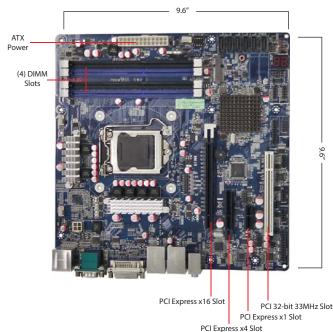






## Powerful micro-ATX Motherboard supports Intel® Core™ i3, i5, i7





#### TECHNICAL SPECIFICATIONS

Form Factor microATX

Dimensions 9.6" x 9.6"

Microprocessor Intel Core i7 3770 (3.4/3.9GHz/quad),

Intel Core i7 2600 (3.4/3.8GHz/quad), Intel Core i5 3550S (3/3.7GHz/quad), Intel Core i5 2400 (3.1/3.4GHz/quad), Intel Core i3 3220 (3.3GHz/dual), Intel Core i3 2120 (3.3GHz/dual), Intel Pentium G2120 (3.1GHz/dual), Intel Pentium G850 (2.9GHz/dual), Intel Celeron G540 (2.5GHz/dual)

Chipset Intel Q77 Express

Memory DDR3 (1066/1333/1600MHz) Dual channel,

Unbuffered, up to 32GB maximum memory

System Bus One (1) PCle x16 graphics slot (x16 Gen 3.0\*)

One (1) PCle x1 slot (x1 Gen 2.0) One (1) PCle x4 slot (x4 Gen 2.0) One (1) PCl 2.3 32bit/33MHz slot One (1) Mini-PCle/mSATA (shared)

Onboard I/O Four (4) external USB 2.0 ports and two (2)

external USB 3.0 ports on rear panel Eight (8) internal USB ports on 10-pin headers Four (4) SATA2 3Gb/s ports and two (2) SATA3 6Gb/s ports supporting Intel Matrix

Storage RAID 0/1/5/10

Six (6) RS232 serial ports, four (4) on headers (RS422/485 configurable on (1) internal port)

One (I) parallel port header
One (I) front panel audio header
One (I) PS/2 keyboard/mouse header
One (I) ATX2.2 - 24-pin (2x12) power

connector

One (I) 4-pin ATX I2V power connector

Video Graphics Simultaneous multi-display output via one (1)

DVI, one (I) VGA and one (I) DisplayPort on

rear panel; Max. resolution 2048x 1536

Ethernet Two (2) RJ45, Gigabit Ethernet ports (Intel

82579LM & 82574L)

Audio Via (3) jacks on I/O back-panel

(6-Channel HD Audio CODEC)

Industrial Devices POST code diagnostic display

Hardware temperature monitor

Watch Dog timer

Powered SATA ports (direct connection of solid

state media, 100% backward compatible)

BIOS AMI® EFI BIOS

Battery Removable battery for CMOS memory

Operating Temp 0°C to 70°C Non-Operating -40°C to 80°C

Op. Humidity 10 to 90% non-condensing Non-Operating 5 to 95% non-condensing

Part Number Q77MX





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