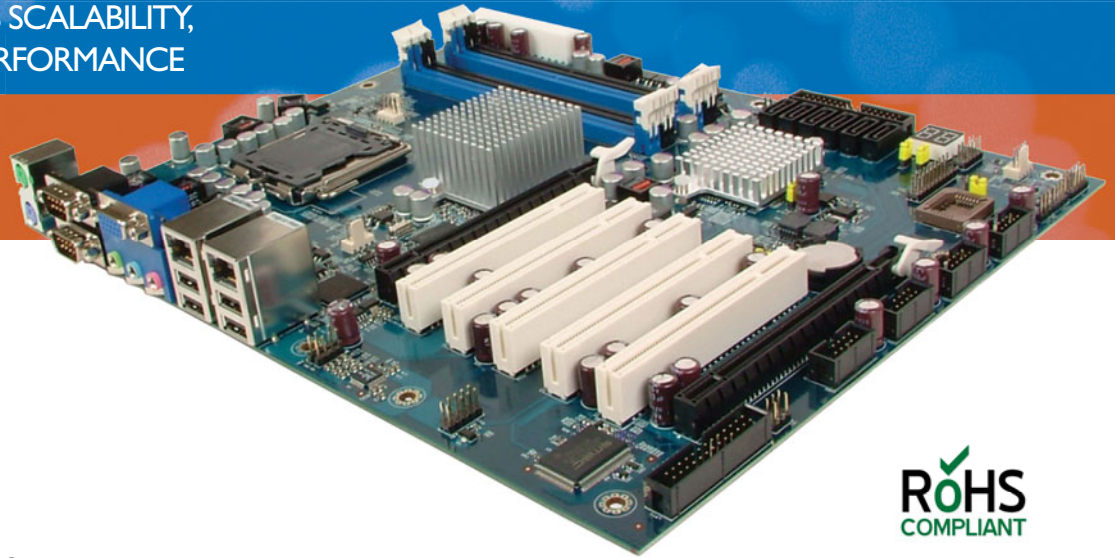


# Q35ATX™

LONG-LIFE ATX MOTHERBOARD FEATURING MULTI CORE PROCESSING

DELIVERING BEST-IN-CLASS SCALABILITY,  
LONGEVITY AND HIGH PERFORMANCE



## PRODUCT HIGHLIGHTS

- Intel® Core™ 2 Quad Q9400,  
Intel Core 2 Duo E8400,  
Intel Core 2 Duo E7400,  
Intel Core 2 Duo E6400,  
Intel Core 2 Duo E4300,  
Intel Core 2 Duo E2160  
Intel Celeron® 440, supported
- Intel Q35 Express chipset + ICH9DO
- 1333/1066/800 MHz FSB
- Six (6) SATA2 headers (300MB/s)  
(supports RAID 0/1/5/10)
- Seven (7) to Ten (10) Year  
Guaranteed Production

## The Q35ATX™

is a long-life industrial motherboard with multi-core processor technology and PCI Express. Powered by the Intel® Q35 Express chipset, the Q35ATX motherboard was designed specifically for performance intensive embedded applications such as Medical, Oil and Gas, Security and Surveillance, Industrial Automation, and Gaming.

## APPLICATIONS

- Medical
- Oil and Gas
- Security and Surveillance
- Industrial Automation
- Gaming

The Intel Q35 Express chipset addresses key requirements of many embedded computing designs, including graphics, low-power consumption, noise reduction, manageability, data protection and security. When combined with Intel Core™ 2 Quad or Intel Core 2 Duo processors, this platform helps embedded OEM's deploy responsive, ultra-high performance, durable long life systems.

Built in RAID support, makes the Q35ATX a compelling alternative to server class boards for more mission critical applications or situations where processor intensive and redundant data storage are of high importance.

Additionally, multiple I/O options make this one of our most flexible boards ever produced. The 5 PCI expansion slots, provide ample support for peripherals in a time where multiple PCI slots are becoming extremely rare on high-performance motherboards.



## OUR COMMITMENT TO QUALITY

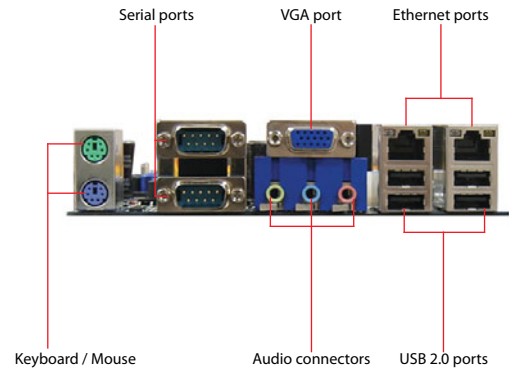
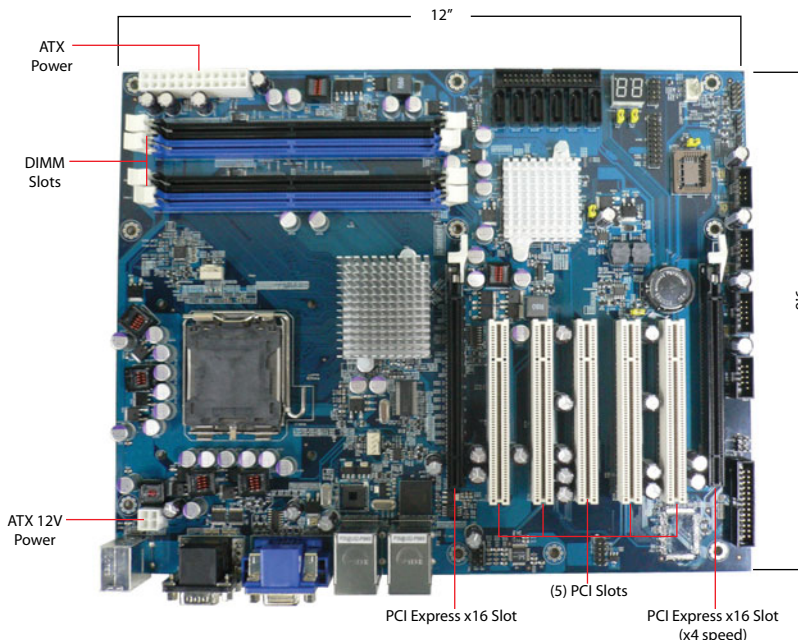
All Corvalent products are designed and manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.

**CORVALENT™**  
AT THE CORE OF EMBEDDED COMPUTING



# Q35ATX™

## LONG-LIFE ATX MOTHERBOARD FEATURING MULTI CORE PROCESSING



### TECHNICAL SPECIFICATIONS

**Form Factor** ATX

**Dimensions** 12.0" x 9.6"

**Microprocessor** Intel® Core™ 2 Quad Q9400, Intel Core 2 Duo E8400, Intel Core 2 Duo E7400, Intel Core 2 Duo E6400, Intel Core 2 Duo E4300, Intel Core 2 Duo E2160, Intel Celeron 440

**Chipset** Intel Q35 Express + ICH9DO

**Front Side Bus** 1333/1066/800MHz

**Memory** DDR2 (667/800MHz) memory dual channel up to 8GB (Supports only unbuffered, non-ECC 240 pin DDR2 SDRAMs)

**System Bus** One (1) PCI Express x16 graphics slot  
One (1) PCI Express x4 interface (in x16 slot)  
Four (4) PCI Rev.2.3 Bus Master interface slots  
One (1) PCI Rev.2.3 Non-Bus Master slot

**Onboard I/O** Twelve (12) USB 2.0 ports (four (4) USB ports on 2x shared RJ45/doubled stacked USB connectors, eight (8) USB ports on 4x 10-pin headers)  
Six (6) SATA2 headers (supports RAID 0/1/5/10)  
Two (2) RS232 Serial port connectors  
One (1) Parallel port headers  
Double stacked PS/2 compatible keyboard/mouse connector  
One (1) Floppy controller header  
One (1) TPM LPC bus header  
ATX2.2 - 24-pin power connector  
4-pin ATX12V power connector

**Video Graphics** Intel Integrated Graphics Accelerator 3100 (GMA3100) with CRT and 2 Ch. SDVO  
DB-15VGA connector on I/O back-panel (maximum resolution 2048x1536 @75Hz)

### Ethernet

One (1) Intel 82573L PCI-E Gigabit Ethernet Controller (MAC + PHY)  
One (1) Intel 82566 GigE PHY (MAC built into ICH9DO)  
Two (2) RJ45 connectors with integrated magnetics shared with four (4) USB ports on I/O back-panel

### Audio

Realtek ALC888 HD Audio CODEC or equivalent  
Mic. in, Stereo Line Out, Stereo Line In jacks on I/O back-panel  
10-pin HD Audio header for extra surround sound outputs.  
CD IN (ATAPI) header  
4-pin SPDIF OUT header

### Industrial Devices

POST code diagnostics  
Hardware Monitoring  
CPU temperature

### BIOS

AMI®

### Battery

Removable lithium battery for CMOS memory

**Operating Temp** 0°C to 55°C

**Non-Operating** -40°C to 70°C

**Op. Humidity** 5 to 95% non-condensing

**Non-Operating** 5 to 95% non-condensing

**Part Number** Q35AX

**CORVALENT™**  
AT THE CORE OF EMBEDDED COMPUTING

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