

XNA Q35ATX

Long Life ATX Motherboard Featuring Multi Core Processing

Technical Information



Product Description

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.

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® Core2 Quad™ or Intel® Core2 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

Form Factor ATX (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

System Bus One (1) PCI Express x16 dedicated 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 header

Double stacked PS/2 compatible keyboard/mouse connector

One (1) Floppy controller header

One (1) TPM LPC bus header

Video Graphics DB-15 VGA connector on I/O back-panel (maximum resolution 2048x1536 @75Hz)

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

Ethernet Two (2) RJ45 Gigabit Ethernet Connectors with integrated magnetics, shared with (4) total USB ports (2 for each RJ45 controller) Ethernet port one resides on an Intel® 82573L PCI-E Gigabit Ethernet Controller (MAC + PHY)

Ethernet port two resides on an Intel® 82566 GigE PHY (MAC built into ICH9DO)

Sound 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

BIOS AMI®

AMT 3.0 support

Power Connector ATX2.2 - 24-pin power connector

4-pin ATX12V power connector

Environmental Specifications **Temperature** 0°C to 55°C

Humidity 5 to 95% @ 40°C



CORTEX
INDUSTRIAL SYSTEMS

Rua Funchal, 513, 12o andar
Vila Olímpia – São Paulo – CEP 04551-060 – (11) 3351-4486
www.cortex.com.br

©2006 Cortex Industrial Systems, All Rights Reserved