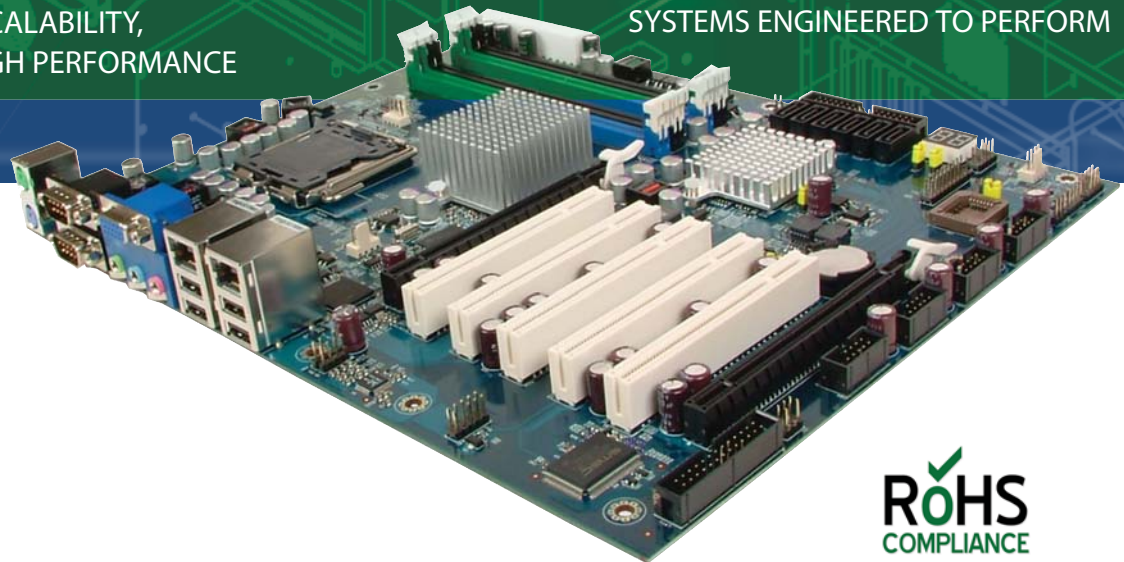# ATXP-Q35

LONG-LIFE ATX MOTHERBOARD FEATURING MULTI CORE PROCESSING

DELIVERING BEST-IN-CLASS SCALABILITY,
OFFERING LONG LIFE AND HIGH PERFORMANCE

SYSTEMS ENGINEERED TO PERFORM

PRODUCT HIGHLIGHTS

- Intel® Pentium® 4 651, Intel® Celeron D 352, Intel® Core™ 2 Duo E6400, Intel® Core™ 2 Duo E4300, Celeron 440
- Intel® Q35 Express chipset
- 1066/800/533 MHz Front Side Bus
- Six (6) SATA2 (300MB/s) RAID
- Five (5) To Eight (8) Year Guaranteed Production

The ATXP-Q35™

is a long-life industrial motherboard with multi-core processor technology and PCI Express. Powered by the Intel® Q35 Express chipset, the ATXP-Q35 motherboard was designed specifically for peformance 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
- Communications
- Simulation

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 Duo processors, this platform helps embedded OEM's deploy responsive, high-performance, low-power systems.

The featured PCI Express x16 dedicated graphics slot supports the latest high performance graphics cards, delivering over 3.5 times traditional AGP 8X. This feature is ideal for graphic intensive embedded computing applications. The featured PCI Express x4 in a x16 connector is capable of transferring 2 GB/s, up to 3.5 times faster than standard PCI architecture.

Standard features include on-board graphics, up to 8GM DDR2 RAM, on-board Realtek ALC888 sound, five 32-bit PCI slots for legacy devices, twelve USB 2.0 ports, six SATA2 headers supporting RAID, two RS232 serial ports, one parallel port, one PS/2 mouse/keyboard connector, one floppy controller and one TPM LPC bus header .

OUR COMMITMENT TO QUALITY

All Chassis Plans Long Life products are designed and manufactured in an ISO 9001:2000 environment and backed by a five (5) to eight (8) year production life cycle guarantee.

CONFIGURED SYSTEMS

Chassis Plans is a recognized leader in turn-key integrated industrial computing solutions. Systems are built exactly to each customer's unique application and environmental requirements. Our broad product line of COTS industrial chassis and unsurpassed custom design capabilities allows us to provide the ideal enclosure. Long Life Products and strict revision control on all components means you get the same system with every order. Chassis Plans Systems are Engineered to Perform.

CHASSIS PLANS
The Original Industrial Computer Source®

ATXP-Q35
LONG-LIFE ATX MOTHERBOARD FEATURING MULTI CORE PROCESSING

TECHNICAL SPECIFICATIONS

Form Factor ATX (12.0" x 9.6")

Microprocessor 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

On board 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
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

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 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 two (2) USB ports on I/O back-panel

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

CATEGORY	OPERATING	NON-OPERATING
Temperature	0°C to 55°C	-40°C to 70°C
Humidity	5% to 95% @ 40°C non-condensing	5% to 95% @ 40°C non-condensing

PRODUCT HIGHLIGHTS

- Intel Core 2 Duo or Celeron 440
- Intel Q35 Chipset
- 1333MHz Front Side Bus
- Up to 8GB of Dual Channel DDR2 800/667
- Twelve USB 2.0 and Two Serial Ports
- One PCI-E x16, One PCI-E x4 and Five PCI Slots
- Serial ATA-II (300MB/s) w/ RAID
- On-Board Video and Realtek Sound
- Five (5) To Eight (8) Year
  Guaranteed Production

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