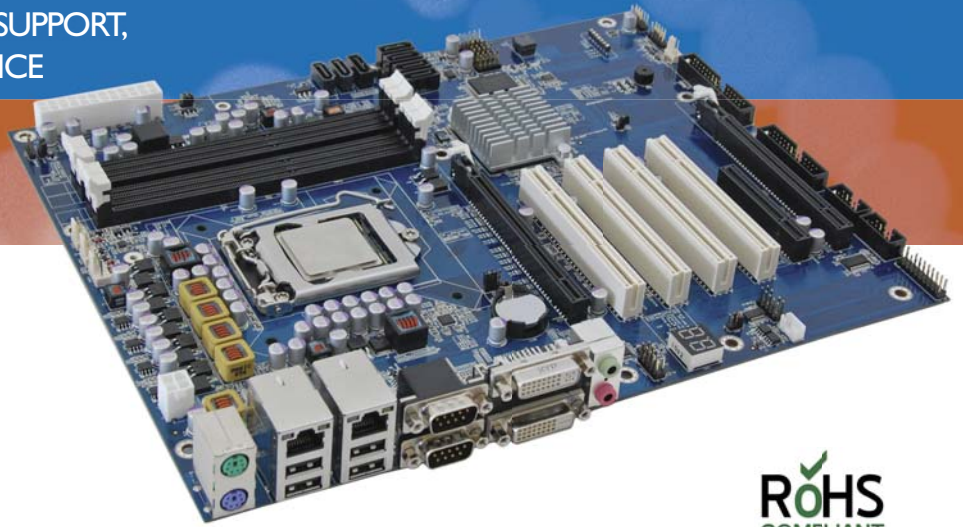


# 345AX™

INDUSTRIAL ATX SUPPORTING THE INTEL® XEON®, CORE™ i3, & CORE™ i5

DELIVERING BEST-IN-CLASS LEGACY SUPPORT,  
LONGEVITY AND HIGH PERFORMANCE



## PRODUCT HIGHLIGHTS

- Intel® Xeon® X3450 (2.66/3.2GHz), Intel Xeon X3430 (2.4/2.8GHz), Intel Core™ i5 660 (3.33 / 3.6GHz), Intel Core i3 540 (3.06GHz)
- Intel 3450 chipset
- Four (4) PCI, three (3) PCI-E slots
- Five (5) SATA2 ports supporting Intel Matrix Storage RAID 0/1/5/10
- Two (2) SATA2 ports supporting RAID 0/1 (any OS, no drivers needed)
- Seven (7) to Ten (10) Year Guaranteed Production

## The 345AX™

is a long-life industrial motherboard supporting the latest Intel Xeon® processors, while still providing a solid migration path for legacy users. The 345AX motherboard was designed specifically for intensive server related tasks in harsh industrial applications such as Medical, Oil and Gas, Security and Surveillance, Broadcast, and Industrial Automation.

## APPLICATIONS

- Medical
- Oil and Gas
- Security and Surveillance
- Industrial Automation
- Video Streaming / Broadcasting
- Industrial Servers
- Military / Defense
- Networking
- Test and Measurement
- Industrial Computing Systems

Our engineers have designed our fastest Xeon® compatible motherboard yet, with some of the best legacy support available anywhere.

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. Combine that with Xeon processors and extras like dual gigabit ethernet ports, and optional special airflow sensors and the 345AX stands out with serious speed, versatility, and value.

Multiple I/O options make this one of our most flexible boards ever produced. (3) Different PCI-E Gen. 2.0 slots and (4) 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 on high-performance motherboards. Ask about our custom 345AX server configurations, built and shipped to your exact specifications. Call today for details



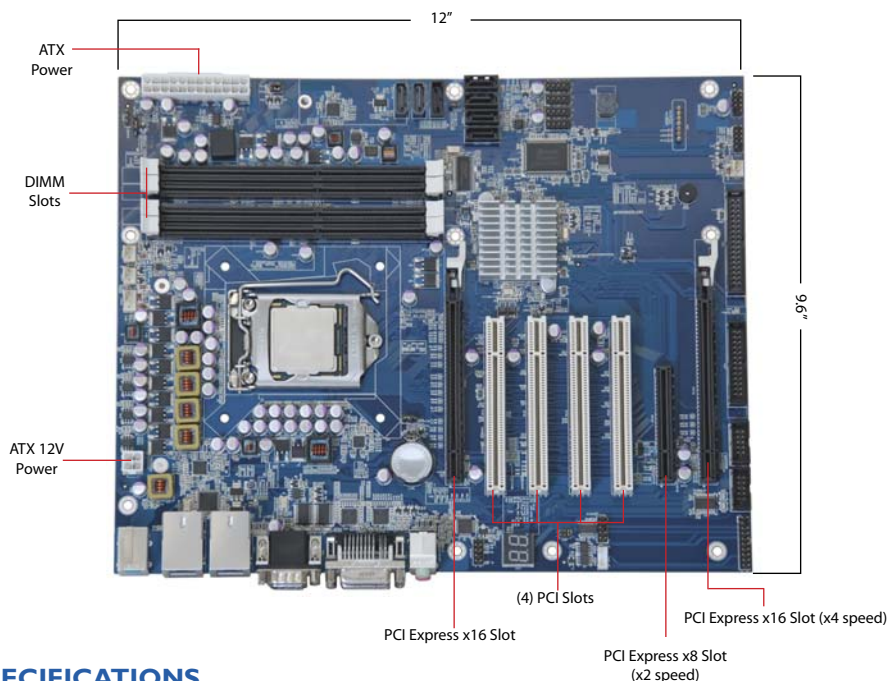
## OUR COMMITMENT TO QUALITY

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.



# 345AX™

INDUSTRIAL ATX SUPPORTING THE INTEL® XEON®, CORE™ i3, & CORE™ i5



## TECHNICAL SPECIFICATIONS

<p><b>Form Factor</b> ATX</p> <p><b>Dimensions</b> 12.0" x 9.6"</p> <p><b>Microprocessor</b> Intel® Xeon® X3450 (2.66/3.2GHz/x4), Intel Xeon X3430 (2.4/2.8GHz/x4), Intel Core i5 660 (3.33 / 3.6GHz/x2), Intel Core i3 540 (3.06GHz/x2)</p> <p><b>Chipset</b> Intel 3450</p> <p><b>Mem. Bandwidth</b> 21 Gb/s</p> <p><b>Memory</b> DDR3 (1066/1333MHz) Dual channel, Unbuffered, ECC (Xeon) or Non-ECC (i3/i5), up to 32GB with Xeon processor. (16GB max with i3/i5)</p> <p><b>System Bus</b> One (1) PCI-E x16 graphics slot (x16 Gen. 2.0) One (1) PCI-E x16 slot (x4 Gen. 2.0) One (1) PCI-E x8 slot (x2 Gen. 2.0) Four (4) PCI 2.3 32bit/33MHz slots</p> <p><b>Onboard I/O</b> Fourteen (14) USB 2.0 ports, six (6) External USB ports on rear panel, ten (8) internal USB ports on 10-pin headers) Five (5) SATA2 3Gb/s ports supporting Intel Matrix Storage 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</p> <p><b>Video Graphics</b> <u>Xeon processors do not support built-in video.</u> Intel i5 and i3 processors provide Integrated</p>	<p><b>Ethernet</b> One (1) Intel 82578 Gigabit Ethernet (PHY) One (1) Intel 82574L Gigabit Ethernet (PHY/MAC) (PCIe x2)</p> <p><b>Audio</b> 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.</p> <p><b>Industrial Devices</b> POST code diagnostics display Airflow sensors (optional upgrade) CPU temperature monitor Powered SATA ports (direct connection of solid state media, 100% backward compatible)</p> <p><b>BIOS</b> AMI® BIOS on 64Mbit SPI</p> <p><b>Battery</b> Removable lithium battery for CMOS memory</p> <p><b>Operating Temp</b> 0°C to 60°C</p> <p><b>Non-Operating</b> -40°C to 70°C</p> <p><b>Op. Humidity</b> 5 to 95% non-condensing</p> <p><b>Non-Operating</b> 5 to 95% non-condensing</p> <p><b>Part Number</b> 345AX</p>	<p><b>Video</b> via Dual DVI ports on the rear panel (DVI-I / DVI-D) Max. resolution 2048x1536</p>
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