

CorSys445™

ROBUST INDUSTRIAL RACKMOUNT SYSTEM

CORSYS FAMILY

COMBINES HIGH-PERFORMANCE AND VALUE
IN A LONG-LIFE-CYCLE PACKAGE



PRODUCT HIGHLIGHTS

- 4U Form Factor (7.0" high, 20.8" deep and 19" wide)
- 3.4GHz Pentium 4, 800MHz FSB, 2MB L2 cache (Socket 775)
- 1GB DDR-667 SDRAM
- DVD R/W Optical Drive
- 250GBWD SATA2 drive in removable enclosure
- High resolution graphics, Dual GbE Ethernet, 8 USB 2.0 ports, 4 serial ports
- 400W ATX12V power supply
- Seven (7) To Ten (10) Year Guaranteed Production

ADDITIONAL OPTIONS

- Up to 4GB of DDR-667 SDRAM
- Wide variety of embedded and commercial Intel processors
- Up to five (5) hard disk drives
- Optional TPM security module
- Customized BIOS settings
- Customized branding
- Black, Red, Blue or Silver front bezels; other colors available on special order
- Windows Operating system pre-loaded
- Complete application loaded
- Finished product can be supplied with custom cards, software, custom testing.

The CorSys445™

Ready-to-go certified and prepackaged configuration built around the exceptional Phoenix ATX Express long-life industrial motherboard in an elegant and efficient rack mount system. The CorSys445™ offers a high-performance platform for a broad array of analysis, control and storage applications.

The Intel® 945G chipset of the Phoenix ATX Express industrial motherboard provides virtually all of the resources needed to building a reliable and consistent computation platform for virtually any application. A wealth of generic I/O (serial, parallel, and USB ports) and very high resolution graphics (2048x1536 @75Hz max.) provide the basis for a broad range of graphic interface uses. Additional features like RAID and a POST code diagnostic display improve long-term reliability and provide ease of maintenance.

As a starting point for a project requiring sophisticated processing and I/O capabilities, the CorSys445™ is unique. Where most pre-configured systems are focused in networking environments, this exceptional system is specifically engineered for ease deployment to field or embedded solution requirements.

In addition to the broad range of standard features offered, the CorSys445™ can be customized with additional memory and storage options. Corvalent offers BIOS customization, which can include splash

ROHS
COMPLIANT



screens and limiting which options can be modified in the field.

The CorSys445™ has five (5) 32-bit PCI and one PCI Express x4 (or x1) slots available for expansion. The Phoenix ATX Express industrial motherboard also includes a PCIe x16 slot intended for high-end or specialized graphics.

OUR COMMITMENT TO QUALITY

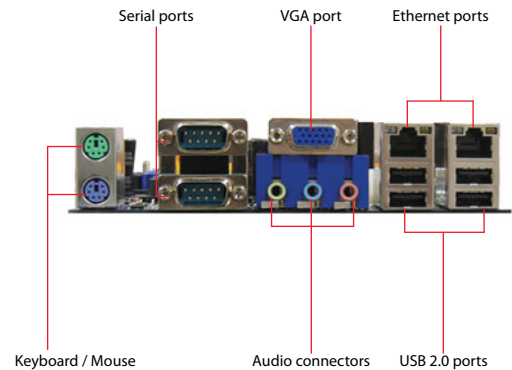
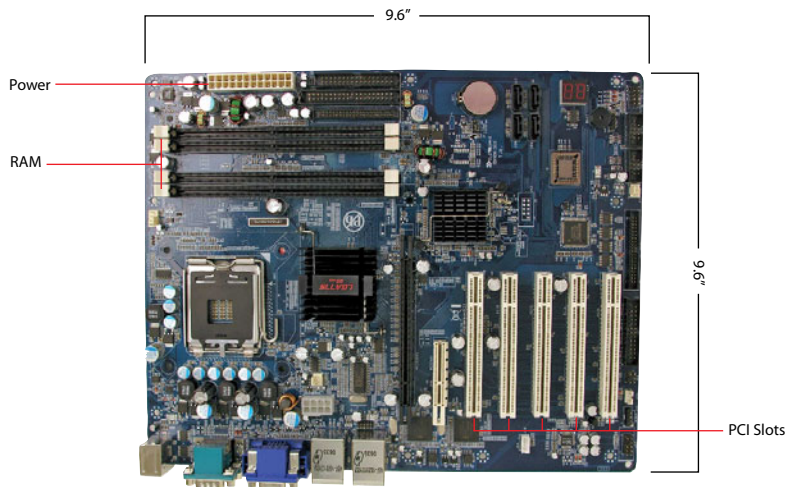
All Corvalent products are designed and manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.



CORVALENT™
AT THE CORE OF EMBEDDED COMPUTING

CorSys445™

ROBUST, HIGHLY FLEXIBLE RACKMOUNT SYSTEM



TECHNICAL SPECIFICATIONS

Form Factor	4U - 7.0" x 19" x 20.8" (177mm x 482mm x 528mm)
Cooling Units	Two (2) in power supply, One (1) 120mm, (1) 80mm and (4) 80mm optional
Air Flow	Front to rear, intake air has cleanable/replaceable filters
Standard Drives	One (1) DVD R/W drive , One (1) 250GB SATA2 HDD in removable carrier
Drive Bays	Four (4) 5.25" and two (2) 3.5" external drives
Expansion Slots	Full length add-on cards capability Five (5) 32-bit PCI slots One (1) x4 PCI Express slot
Motherboard	Corvalent - Phoenix ATX Express (P45MX)
Dimensions	9.6" x 9.6" (243.84mm x 243.84mm)
Microprocessor	Intel® Celeron® D, Intel® Pentium® 4 with Hyper-Threading Technology and Intel® Pentium® 4 processor
Chipset	Intel® 945G Express + ICH7R
Front Side Bus	533/800/1000MHz
Memory	1 GB DDR2-667 SDRAM (2 modules). Four (4) DIMM sockets support up to 4GB total
System Bus	One (1) PCI Express x16 One (1) PCI Express x4 slot Two (2) 32-bit PCI slots (version 2.3)
Onboard I/O	Four (4) Serial ATA connectors (300MB/s) with RAID 0, 1, 5, 10 One (1) 40-pin PATA100 EIDE connector and one (1) 44-pin PATA100 EIDE connector (supports two (2) devices) Floppy controller Eight (8) USB 2.0 ports, two (2) on front panel, two (2) on rear panel, four (4) on internal headers Four (4) RS232 serial ports, two (2) on rear

panel, two (2) on internal headers, one (1) factory configurable to RS422
One (1) PS/2 mouse/keyboard connector
400W ATX-12V power supply, optional 500W, Dual 300W or 400W, Hot Swappable/redundant

Video Graphics	Onboard-integrated graphics utilizing Intel® Graphics Media Accelerator 950. (Maximum resolution 2048x1536 @ 75Hz),
Ethernet	Two (2) onboard PCI Express-based 10/100/1000 Ethernet ports. Both ports support Wake-on-LAN
Audio	Intel® High Definition Audio/AC'97
Industrial Devices	Hardware monitoring including fans CPU temperature and voltages POST display for diagnostics
BIOS	AMI®
Battery	Removable lithium battery for CMOS memory
Operating Temp	0°C to 60°C
Non-Operating	-40°C to 85°C
Op. Humidity	5% to 95% @ 40°C non-condensing
Non-Operating	5% to 95% @ 40°C non-condensing
Part Number	CorSys445



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