

CorSys245™

LOW-PROFILE, HIGHLY FLEXIBLE SYSTEM

CORSYS FAMILY

CONVERGING HIGH-PERFORMANCE AND
VALUE WITH A LONG-LIFE-CYCLE



ROHS
COMPLIANT

PRODUCT HIGHLIGHTS

- 2U Form Factor (3.5" High and 20" Deep)
- 3.4GHz Pentium 4, 800MHz FSB, 1MB L2 cache (Socket 775)
- 1GB DDR-667 SDRAM
- DVD R/W Optical Drive
- 250GB SATA2 drive in removable enclosure
- High resolution graphics, GbE Ethernet, 8 USB 2.0 ports, 2 serial ports
- 400W ATX12V power supply
- Seven (7) To Ten (10) Year Guaranteed Production

ADDITIONAL OPTIONS

- Two (2) additional RS232 ports
- Up to 4GB of DDR2-667 SDRAM
- Wide variety of embedded and commercial Intel processors
- Up to four (4) internal hard disk drives
- Optional TPM security module
- Customized BIOS settings
- Customized branding
- Beige or Black; other colors available on special order
- Operating system loaded
- Complete application loaded
- Finished product can be supplied with custom cards, software, custom testing.

The CorSys245™

Ready-to-go certified and prepackaged configuration built around the exceptional Phoenix MicroATX Express long-life industrial motherboard in an elegant and efficient rackmount system. The CorSys245™ offers a high-performance platform for a broad array of analysis, control and storage applications.

The Intel® 945G chipset of the Phoenix MicroATX 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 CorSys245 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.

Add-in PCI cards attach to a right-angle riser card. The riser in the CorSys245 provides mounting for two 32-bit PCI cards and one PCI Express x4 (or x1) card. The Phoenix MicroATX Express industrial motherboard also includes



a PCIe x16 slot intended for high-end or specialized graphics. This slot can reside on the riser as a special order option.

OUR COMMITMENT TO QUALITY

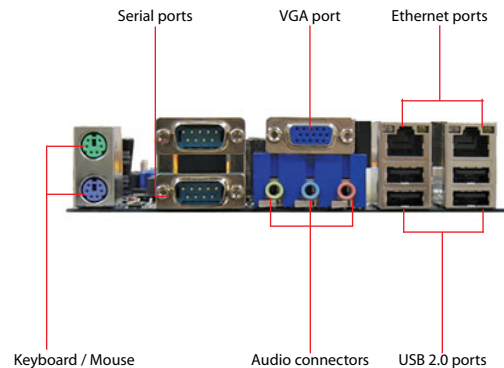
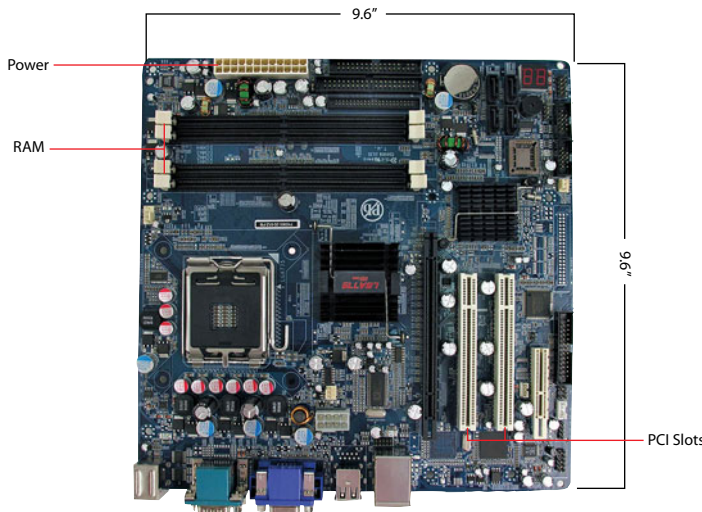
All Corvalent products are designed and manufactured in an ISO 9001:2008 environment and backed by a seven (7) to ten (10) year production life cycle guarantee.

CORVALENT
AT THE CORE OF EMBEDDED COMPUTING



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TECHNICAL SPECIFICATIONS

Form Factor	2U -- 16.8" x 3.46" x 20.42" (426.5mm x 88.0mm x 518.7mm)		
Cooling Units	One (1) on CPU, Two (2) in power supply Three (3) 80mm case fans with independent smart alarm controller		
Air Flow	Front to rear, intake air has cleanable/replaceable filters	Video Graphics	Onboard-integrated graphics utilizing Intel Graphics Media Accelerator 950. (Maximum resolution 2048x1536 @ 75Hz),
Standard Drives	One (1) DVD R/W drive, One (1) 250GB SATA2 HDD in removable carrier	Ethernet	Two (2) onboard PCI Express-based 10/100/1000 Ethernet ports. Both ports support Wake-on-LAN
Drive Bays	Two (2) 5.25" external drives (one low profile) Four (4) internal 3.5" shock-mounted	Audio	Intel High Definition Audio/AC'97
Expansion Slots	Right angle riser carrying: (Other configurations available), Two (2) 32-bit PCI slots One (1) x4 PCI Express slot	Industrial Devices	Hardware monitoring including fans CPU temperature and voltages POST display for diagnostics
Motherboard	Corvalent - Phoenix ATX Express (P45AX)	BIOS	AMI®
Dimensions	9.6" x 9.6" (243.84mm x 243.84mm)	Battery	Removable lithium battery for CMOS memory
Microprocessor	Intel® Celeron® D, Intel Pentium® 4 with Hyper-Threading Technology and Intel Pentium 4 processor	Operating Temp	0°C to 60°C
Chipset	Intel 945G Express + ICH7R	Non-Operating	-40°C to 85°C
Front Side Bus	533/800/1000MHz	Op. Humidity	5% to 95% @ 40°C non-condensing
Memory	1 GB DDR2-667 SDRAM (2 modules). Four (4) DIMM sockets support up to 4GB total	Non-Operating	5% to 95% @ 40°C non-condensing
System Bus	One (1) PCI Express x16 One (1) PCI Express x4 slot Two (2) 32-bit PCI slots (version 2.3)	Part Number	CorSys245
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, four (4) on rear panel, four (4) on internal headers		

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