

Q35SBC™

HIGH PERFORMANCE EMBEDDED SBC WITH MULTICORE PROCESSING

QUAD CORE POWER, IN AN ULTRA-COMPACT FORM FACTOR

PRODUCT HIGHLIGHTS

- Intel® Core™ 2 Quad Q9400, Intel Core 2 Duo E8400, E6400, E4300, E2160
- Intel Q35 Express chipset
- Two (2) SATA 2.0 ports
- Twelve (12) USB 2.0 ports
- Up to 4GB of DDR2
- PICMG 1.0 Compliant
- One (1) PATA 100 port, supports one (1) IDE device
- Seven (7) to Ten (10) Year Guaranteed Production



ROHS
COMPLIANT

The Q35SBC™

single board computer (SBC) is a full-size PICMG 1.0 compliant CPU card (13.3" x 4.8") based on the Intel® Core™ 2 Duo and Intel Celeron® processor. The Q35SBC was designed specifically for performance intensive embedded applications such as Security & Surveillance, Telecommunications, Defense, Medical, Networking, Factory Automation, and Robotics.

APPLICATIONS

- Security & Surveillance
- Telecommunications
- Defense
- Medical
- Networking
- Factory Automation
- Robotics

The Intel Core 2 Duo processor enables the Q35SBC to be cooled by a low-profile heat sink and fan. This significantly reduces the amount of horizontal space the SBC takes up in the backplane and allows usage of expansion card slots that would normally be blocked by a larger standard processor fan.

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, the Q35SBC platform helps embedded OEM's deploy responsive, high-performance, low-power systems.

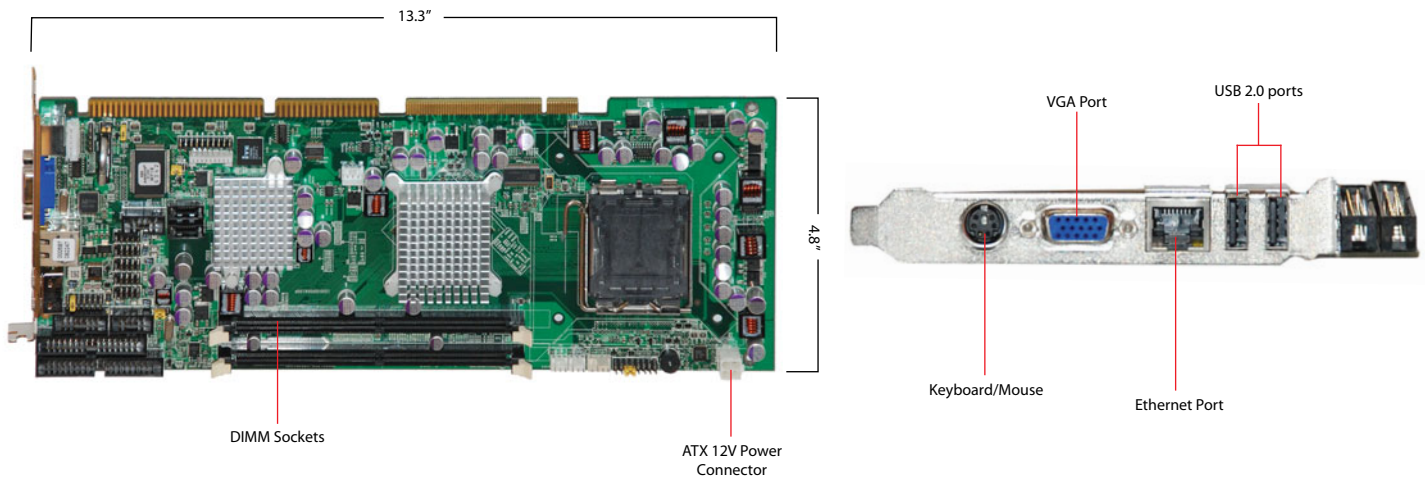


OUR COMMITMENT TO QUALITY

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



TECHNICAL SPECIFICATIONS

Form Factor	Full-size PICMG 1.0	Ethernet	One (1) 10/100/1000 Base-T Ethernet (Realtek 8111B)
Dimensions	13.3" x 4.8"	Audio	Realtek ALC888 HD Audio Codec (optional)
Microprocessor	Intel® Core™ 2 Quad Q9400 Intel Core 2 Duo E6400 Intel Core 2 Duo E4300 Intel Core 2 Duo E2160 Intel Celeron® 440	Industrial Devices	Watchdog Timer Hardware Monitoring
Chipset	Intel Q35 Express + ICH9	BIOS	AMI®
Front Side Bus	1333/1066/800/533MHz	Battery	Removable lithium battery for CMOS memory
Memory	Two (2) DIMM sockets support up to 4GB of DDR2 (Supports only unbuffered, non-ECC 240 pin DDR2 SDRAMs)	Operating Temp	0°C to 60°C
Onboard I/O	One (1) ATA 66/100 IDE connector Two (2) SATA 2.0 ports PCI to ISA bridge (no DMA bus master support) Twelve (12) USB 2.0 ports One (1) RS232, One (1) RS232/422/485 selectable One (1) PS/2 mouse/keyboard One (1) Floppy connector One (1) TPM 1.2 LPC bus header 4-pin ATX 12V type Supplemental Power Connector 4-bit digital i/o header	Non-Operating	32°F to 140°F
Video Graphics	Built-in Intel Graphics Media Accelerator 3100 (Intel GMA 3100 Maximum resolution 2048 x 1536 @ 75Hz)	Op. Humidity	0 to 95% @ 40°C non-condensing
		Non-Operating	0 to 95% @ 40°C non-condensing
		Part Number	Q35SB



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