



XNF-Q35SBC

High Performance Embedded SBC with Multicore Processing



The XNF-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.

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

Technical Information

Features

Intel® Core™ 2 Duo E6400, Intel® Core™ 2 Duo E4300,
Intel® Core™ 2 Duo E2160, Intel® Celeron® 440
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
Eight (8) to Ten (10) Year Guaranteed Production

Specifications

Form Factor	Full-size PICMG 1.0 (13.3" x 4.8")
Microprocessor	Intel® Core™ 2 Duo E6400, Intel® Core™ 2 Duo E4300, Intel® Core™ 2 Duo E2160, Intel® Celeron® 440
Chipset	Intel® Q35 Express + ICH9
Front Side Bus	1066/800/533MHz
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) Parallel port header One (1) TPM 1.2 LPC bus header
Video Graphics	Built-in Intel® Graphics Media Accelerator 3100 (Intel® GMA 3100 Maximum resolution 2048 x 1536 @ 75Hz)
Memory	Two (2) DDR2 sockets support up to 4GB
Ethernet	One (1) 10/100/1000 Base-T Ethernet Realtek 8111B
Sound	Optional Audio Daughterboard
Industrial Devices	Watchdog Timer Hardware Monitoring AMI®
BIOS	
Power	Connector 4-pin ATX 12V type
RoHS	RoHS compliant PCB and components CE, FCC and UL compliance
Temperature	0°C to 60°C - operating 32°F to 140°F - non-operating
Humidity	5% to 95% @ 40°C non-condensing

Rua Funchal, 513, 12o andar
Vila Olímpia – São Paulo – CEP 04551-060 – (11) 3351-4486
www.cortex.com.br