

ECX800

Socket 478 Intel® Core® Duo ECX Single Board Computer



(click to zoom)
[Datasheet in PDF](#)

ECX800 SPECIFICATIONS

CPU

Socket 478 or CPU on board
Supports Intel® IMVP-6 Mobile processors (Intel® [Core™ Duo](#) /Solo processors); up to 2.33GHz

CPU Front Side Bus (FSB)

533MHz / 667MHz

Chipset

Intel® 945GM chipset
ICH7M

BIOS

Award BIOS, ACPI supported

System Memory

One DDR2 SO-DIMM socket supports up to 2GB DDR SDRAM
PC400/533/667 DDR SDRAM

Integrated VGA

Intel® 945GM integrated VGA for CRT/TV out
Supports DVMT 3.0 for memory allocation

LVDS

Intel® 945GM integrated for 18-bit dual channel LVDS
LVDS connector on board

LAN

PCI Express Gigabit Ethernet
RJ-45 on board

Audio

ICH7M integrated audio with AC97 codec
Supports 5.1 channels
Pin header for audio line out and microphone

Multi I/O

ICH7M, Winbond W83627EHF chipset
Supports 1x IDE, 1x SATA, 2x RS-232, 1x KB,

1x Mouse

IDE Interface

Built in ICH7M; One enhanced IDE channel supports
2 IDE devices; supports UDMA33/66/100

FEATURES

- Fanless Mobile Intel® 945GM Chipset based ECX form-factor platform
- Supports Intel® Core™ Duo /Solo processors
- Integrated VGA supporting CRT and TV out interface
- One DDR2 SODIMM sockets for 2GB memory
- Gigabit LAN, SATA, USB 2.0, Digital I/O, CF socket

Serial Ports

Two RS-232 ports

Serial ATA

Supports 1 port

USB (2.0)

Supports 4 USB ports (two ports on board, two ports via pin header)

IrDA

Pin header

Keyboard and Mouse Connector

PS/2 type

Watchdog Timer

Generates system reset; 256 levels

Hardware Monitoring

Built in W83627EHF; monitors system/CPU
temperature and voltage status

Digital I/O

4 in / 4 out

Compact Flash

CF connector on solder side

Edge Connectors

VGA CRT, PS/2 KB/Mouse Mini DIN, RJ-45, two USB, S-Video for TV out, COM1

Onboard Connectors/Headers

IDE1 box header, CF connector, digital I/O header, COM2 header, USB 3/4 header,
LVDS connector, line out/Mic header, SATA header, FDD, LPT

Form Factor

ECX (Embedded Compact Extended)

Dimensions

146mm x 105mm

Environmental Factors:

Operating Temperature:

0°C~60°C (32°F~140°F)

Storage Temperature:

-20°C~80°C (-68°F~176°F)

Relative Humidity:

10%~90% (non-condensing)



ECX800 Edge Connectors

Ordering Information:

ECX800-D16-R - Intel® Core Duo 1.66GHz, 945GM Dual Core ECX Single Board Computer with VGA, Gigabit LAN, TV out

ECX800-R Socket478 for Core2Duo/Solo, 945GM, ECX SBC with GbE LANx1, VGA, w/o cooler cable kit (IB38), (RoHS)

IB38 - Cable kit w/ IDEx1, COMx1, SATA, Printer, Audio, Power cable