

Main Features

- Low Power ETX CPU Module
- Supports Intel® Pentium® M/ Celeron® Processor
- Intel® 852GM Chipset
- · Supports 200/266 SO-DIMM up to 1GB

- Intel® 82562GZ 10/100 Ethernet Controller
- VIA VT1613G CODEC, AC' 97 Audio Interface
- Supports LVDS Interface
- Supports DVO Interface

Product Overview

The ICES 102 is an ETX CPU module with Intel® 852GM chipset supports Intel® Celeron® M or Pentium® M processor with 400 MHz FSB and one un-buffered non-ECC SO-DIMM 200/266 up to 1GB. The Intel® 852GM chipset supports ISA, PCI, IDE, LPT, VGA, LVDS, LAN, Serial, USB DVO interfaces and more.

The ICES 102 follows the ETX standard x 1, x 2, x 3, x 4 connections between the ETX CPU module and I/O carried board, thus it is compatible with the carried boards from other brands like Kontron and Advantech. The ICES 102-C65 ETX CPU Module can easily integrated into most of the limited space projects, such as industrial automation, data acquisition and equipment computers.

Specifications

CPU Support

- Intel® Celeron® M processor
- Intel® Pentium® M processor
- Supports 400 MHz FSB CPU only

Main Memory

• Supports one unbuffered non-ECC DDR SO-DIMM 200/266 up to 1GB

Chipset

• Intel® 852GM + ICH-4 chipset

BIOS

- Award System BIOS
- Advanced Power Management support
- 4 Mbit flash ROM
- Supports Boot from USB-CDROM and Boot From CF Card (Industry grade bootable CF Card)

On-board LAN

- Intel® 82562GZ 10/100 Fast Ethernet
- Supports PXE LAN boot function
- Signals down to I/O Board

Display

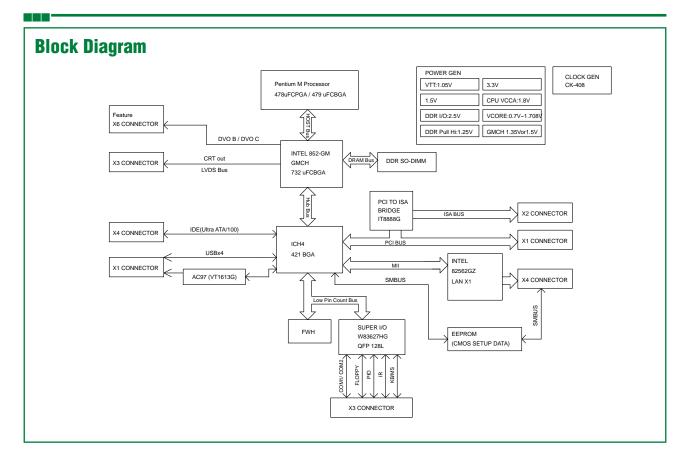
- Intel® 852GM integrated graphics solution up to 64 MB of dynamic video memory allocation drives a standard progressive scan analog monitor with pixel resolution up to 1600 x 1200 at 85 Hz
- Wide screen resolution support for 852 x 480 and 1366 x 768 reolution
- · Single or dual pixel LVDS panel support
- Supports CRTs up to 1920 x 1440 x 32 bpp at 85 Hz

Super I/O

• WINBOND W83627HG

NE(COM





ETX Connector

• X1

4 x 32-bit/33 MHz PCI VIA VT1613G Codec - AC' 97 Audio Interface 4 x USB 2.0

• X2

ISA Interface (full function)

• X3

1 x VGA

1 x LVDS (dual pixel)

1 x Parallel port

1 x KB/Mouse

COM1 and COM2

1 x IrDA

• X4

1 x Ethernet (10/100)

SMBus/I2C

2 x IDE

Power Requirements

- +5 V power only, follows ETX power and ground pin definitons.
- Supports both AT and ATX power mode

Dimensions

• 95mm (W) x 114mm (L) (3.74" x 4.5)

Environment

- Operating temperature: 0°C to 60°C
- Storage temperature: -20°C to 80°C
- Relative humidity:
 Operating 10% 90%, non-condensing
 Non-operating 5% 95% (non-condensing)

Certifications

- · CE approval
- FCC Class A

Ordering Information

COM/LPT/USB2.0/LAN Interface

ICES 102-373 (P/N: 10K00010202X0)
 ETX Module with Celeron® M 1 GHZ/512 KB L2, VGA/ISA/PCI/IDE/LVDS/Audio/

• ICES 102-C65 (P/N: 10K00010201X0)

ETX Module with onboard Celeron® M 600 MHz processor, VGA/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN Interface

• ICES 102-SKT (P/N: 10K00010200X0)

ETX Module with Pentium® M/Celeron® M CPU Socket, VGA/ISA/PCI/IDE/LVDS/Audio/COM/LPT/USB2.0/LAN Interface