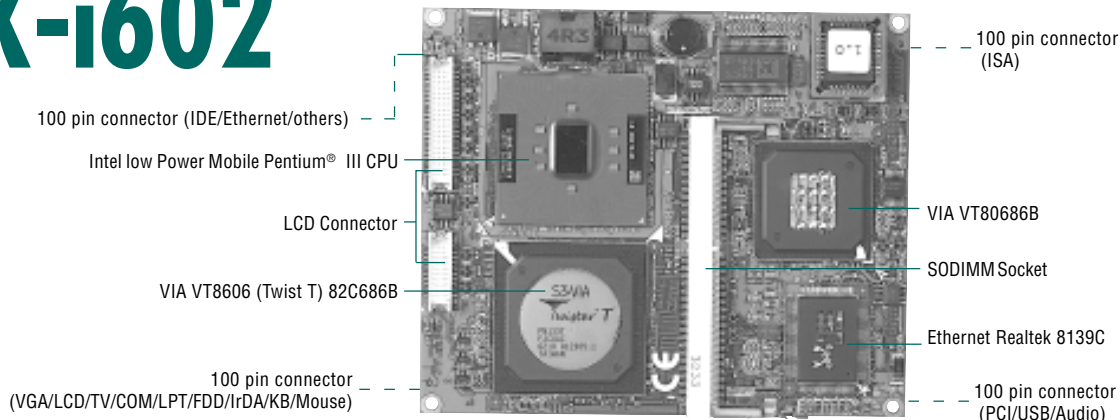


# EmETX-i602



## Low Power ETX CPU Module

## with Embedded Intel Mobile CPU, LCD/CRT SVGA, LAN and Audio

### General Specification

#### CPU

Embedded Intel Low Power Mobile CPUs

**EmETX-i602/P800:** Intel Low Voltage Pentium III Tualatin 800MHz with 133 MHz of FSB

**EmETX-i602/C400:** Intel Ultra Low Voltage Celeron Processor 400 MHz with 100 MHz of FSB (all with onboard mounted CPU)

#### Chipset

VIA VT8606 chipset with VT82C686B

#### BIOS

AWARD Flash BIOS Green & Soft Off function, Multiple boot function

#### Green Function

Power saving supported in BIOS, DOZE/STANDBY/SUSPEND modes, APM

#### L2 Cache

Integrated in CPU  
- PIII 800 512K  
- Celeron 400 256K

#### DRAM Memory

One 144-Pin SODIMM socket support up to 512 MB

#### PCI Enhanced IDE with Ultra DMA

Support two ports and up to 4 ATAPI devices, Ultra DMA transfer rates 100 MB/sec

### Network Interface

#### Chipset

Realtek 8139C, 10/100 Mbps, auto-switching, Wake-on-LAN supported

#### Connector

The RJ45 connector on the Evaluation Board PBE-1000

### Audio Interface

#### Chipset

VT82C686B and AC97 Ver. 2.0 Compliant Interface

### High Speed Multi I/O

#### Chipset

Included in VT82C686B "Super" Southbridge

#### Serial ports

1 high speed RS-232C ports (COM1)  
1 high speed RS-232C/422/485 prot (COM2)  
Both with 16C550 UART and 16 byte FIFO

#### USB Ports

Four USB ver1.1 ports

#### SIR Interface

Onboard IrDA TX/RX port

#### BI-Directional Parallel Port

Supports SPP, EPP and ECP mode, BIOS enabled/disabled

#### Keyboard and Mouse

One Keyboard and Mouse

### VGA Interface

#### Chipset

VIA8606 Integrated Savage4 2D/3D Video Accelerator with 8/16/32 MB Share Memory, 4xAGP and 128-bit engine

#### Display Type

Flat Panel and CRT displays up to 1280 x 1024 @ 32 bpp

#### LCD Interface

Flat Panel 36-bit TTL interface

#### LVDS Interface

Scalable Bandwidth: Ranging from 25 MHz ~ 112 MHz (VGA ~ SXGA) 18/36-bit one/two channel LVDS interface

#### TV-out

Support NTSC,PAL NTSC-EIA (Japan) formats Support 640 x 480 resolutions

### Environmental and Power

#### Power Requirements

+5V @ 1.98A (Typical); (Intel PIII 800 MHz with 512 MB)  
+5V @ 1.38A (Typical); (Intel Celeron 400 MHz with 512 MB)

#### CPU Power

1.15V 800 MHz -> 11.2 W  
0.95V 400 MHz -> 3.4 W

#### Board Dimensions (LxW)

95 mm x 114 mm (3.7" x 4.5")  
ETX Form Factor

### Board Weight

0.087 Kg

#### Operating Temperature

0 to 60°C (32 to 140°F)

### Ordering

#### EmETX-i602/P800

ETX CPU Module with Embedded Intel Mobile Low Voltage Pentium® III 800 MHz, LCD/CRT UXGA, LAN, Audio

#### EmETX-i602/C400

ETX CPU Module with Embedded Intel Ultra Low Voltage Celeron Processor 400 MHz, LCD/CRT UXGA, LAN, Audio

#### PBE-1000

ATX Evaluation Board for ETX CPU Modules.