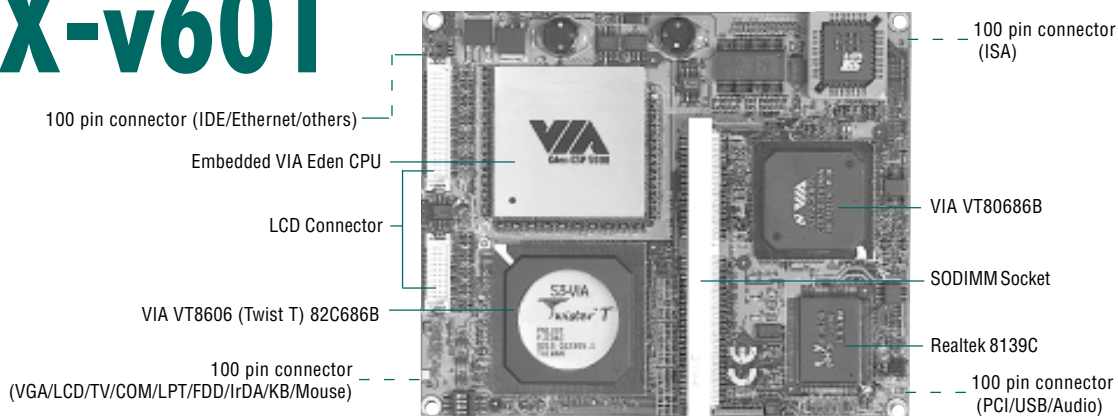


EmETX-v601



Low Power ETX CPU Module with Embedded VIA Eden CPU, LCD/CRT SVGA, LAN and Audio

General Specification

CPU

VIA Eden EBGA Package CPU

EmETX-v601/E533: Low power VIA Eden 533 MHz with 133 MHz of FSB

EmETX-v601/E667: Low Power VIA Eden 667 MHz with 133 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

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, 4 x AGP 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

+5 V @ 2.03 A (Typical); (VIA Eden 533 FSB 133 MHz with 256 MB SDRAM)

+5 V @ 2.11 A (Typical); (VIA Eden 667 FSB 133 MHz with 256 MB SDRAM)

CPU Power

1.2 V 533 MHz -> 5 W

1.1 V 667 MHz -> 5 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-v601/E533

Low Power ETX CPU Module with Embedded VIA Eden 533 MHz, LCD/CRT UXGA, LAN, Audio

EmETX-v601/E667

Low Power ETX CPU Module with Embedded VIA Eden 667 MHz LCD/CRT UXGA, LAN, Audio

PBE-1000

ATX Evaluation Board for ETX CPU Modules