

# EmETX-v601

VIA Eden Series ETX CPU Module with LCD / CRT / TV-out, Audio & LAN

Computer  
on Module



## Features



- VIA Low Power Eden 300MHz (ESP3000) up to 1GHz (ESP10K) CPU FSB66/100/133MHz
- VIA Low Power Eden 300MHz (ESP3000) CPU FSB66MHz (Fanless solution)
- VIA Low Power Eden 533MHz (ESP5000) CPU FSB133MHz (Fanless solution)
- SDRAM up to 512MB (SO-DIMM)
- UMA Savage 4 (VT8606T) AGP video controller with TTL, LVDS, CRT and TV-out support
- Realtek 8100BL 10/100Base-T Ethernet
- Support unique board ID# (2K EEPROM) for software based security and IP protection

## System

<b>CPU</b>	VIA Low Power Eden 300MHz (ESP3000) up to 1GHz (ESP10K) CPU FSB66/100/133MHz
<b>Cache</b>	2nd level 64KByte
<b>Memory</b>	1 x 144Pin SO-DIMM up to 512MB SDRAM
<b>Chipset</b>	VIA Twister-T VT8606T + VIA VT82686B
<b>ATA / IDE</b>	2 x Ultra DMA 100, support 4 IDE drives
<b>BIOS</b>	Phoenix - AWARD PnP Flash BIOS
<b>Watchdog Timer</b>	127-level Reset

## I/O

<b>Serial Port</b>	2 x TTL (16550 compatible), IrDA support
<b>Parallel Port</b>	SPP/EPP/ECP mode shared with Floppy
<b>Floppy</b>	Floppy shared with parallel port can be implemented on the carrier board (2nd I/O) can be used as external USB Floppy
<b>IrDA</b>	1 x SIR IrDA 1.1 compliant
<b>USB Port</b>	4 x USB 1.1 compliant
<b>KB/MS</b>	1 x PS2 K/B and Mouse

## Ethernet

<b>Chipset</b>	Realtek 8100BL 10/100base-T
<b>Interface</b>	Built-in Boot ROM in Flash BIOS, support Boot from LAN

## Audio

<b>Codec / Interface</b>	VIA VT1612A AC97 Codec, support Mic-in / Line-in / Line-out
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## Display

<b>Graphics Chipset</b>	VIA Twister-T S3 Savage4 Engine, up to 32MByte UMA Video RAM
<b>Graphics Interface</b>	CRT support QXGA up to 1920 x 1440 LCD support 18/36 bit LVDS up to 1280 x 1024 LCD support 18/24/36 bit TTL up to 1280 x 1024 TV-out support NTSC / PAL up to 1024 x 768

## Mechanical & Environmental

<b>Power Consumption</b>	EmETX-v601/E533 5V / 2.55A (Max.)
<b>Operating Temp.</b>	0 ~ 60°C (32 ~ 140°F)
<b>Operating Humidity</b>	0 ~ 90% (non condensing)
<b>Dimension (L x W)</b>	114 x 95mm (4.5" x 3.7")

## Ordering Information

<b>EmETX-v601/E300</b>	VIA Eden 300MHz, ETX module	
<b>EmETX-v601/E533</b>	VIA Eden 533MHz, ETX module	
<b>EmETX-v601/S800</b>	VIA 800MHz, ETX module (optional)	
<b>PBE-1000</b>	ATX form factor evaluation board	Page 1-9
<b>Heat sink</b>	HS-0601-C1	Page 5-4
	HS-0601-W1(optional)	Page 5-5
	HS-0601-F1 (optional)	Page 5-5
<b>Memory Module</b>	SDRAM 64MB SO-DIMM 144Pin	
	SDRAM 128MB SO-DIMM 144 Pin	
	SDRAM 256MB SO-DIMM 144Pin	
	SDRAM 512MB SO-DIMM 144Pin	