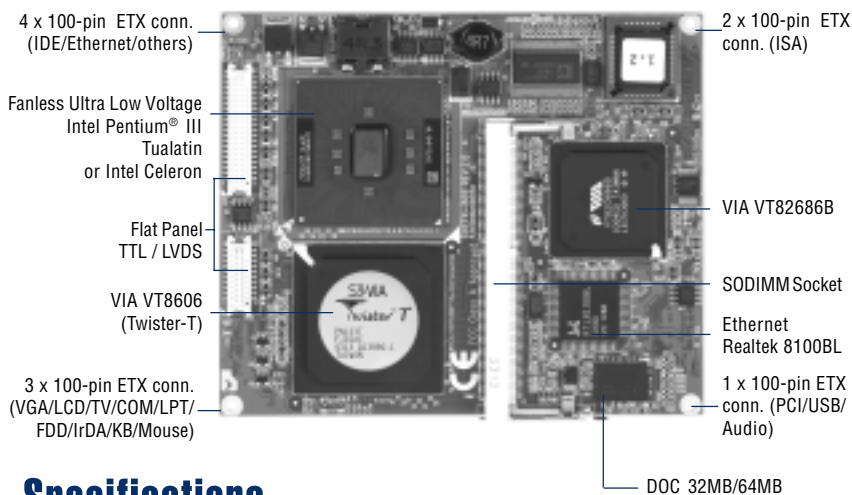


EmETX-i602

Intel Pentium III Tualatin ETX CPU Module with Twister-T™ supports Flat Panel / CRT / TV-out, Audio, LAN



Features



- ★ Low Voltage Pentium III Tualatin or Ultra Low Voltage Celeron (range 400 ~ 933 Mhz)
- ★ SDRAM up to 512 MB (SODIMM)
- ★ UMA Savage 4 (VT8606T) AGP Video Controller with TTL, LVDS, CRT and TV-Out support
- ★ 10/100 Mbps Ethernet, RTL 8100BL with Wake On LAN
- ★ Support Unique Board ID# for software based security and IP protection

Specifications

System

- **CPU Type:** Low Voltage Mobile Pentium III or Celeron (Fanless)
- **System Memory:** Up to 512 MB SDRAM on 144-pin SODIMM module
- **L2 Cache:** CPU integrated, 512K Byte / 256K Byte (Celeron)
- **Chipset:** VIA Twister-T™ with VT8606 northbridge and VT82C686B super southbridge
- **Enhanced IDE:** Two ports and up to 4 ATAPI devices, supports Ultra DMA transfer rates of up to 100 MB/sec
- **BIOS:** Award Flash BIOS with ACPI and APM 1.2 power management
- **Watchdog Timer:** 127-level timer
- **Expansion:** ETX (includes PCI/ISA)

Multiple I/O

- **Serial:** 2 high speed RS-232C ports (COM1.COM2)
- **Parallel:** SPP, EPP and ECP mode share with floppy
- **Floppy Port:** Can be implemented on carrier board
- **IrDA:** SIR IrDA 1.1 compliant
- **USB:** 4 USB ports
- **K/B & Mouse:** One PS/2 keyboard and one PS/2 mouse

LAN

- **Chipset:** RTL8100BL
- **Ethernet Interface:** 10/100 Mbps, Wake-on-LAN supported

Audio

- **Chipset:** VT82C686B integrated and VT1612A codec
- **Audio codec:** AC'97 v2.2 (Soundblaster compatible)

Display

- **Chipset:** UMA Savage 4 (VT8606T) AGP Video Controller with TTL, LVDS, CRT and TV-Out support
- **Display Memory:** Up to 32 MB UMA Video RAM
- **CRT:** Up to UXGA 1600 x 1200 @ 32bpp
- **LVDS:** Supports dual channel 110 MHz (36-bit)
- **TTL:** Direct connection to TFT/DSTN panels (36-bit)
- **TV-out:** NTSC, PAL, NTSC-EIA (Japan), 640 x 480 resolutions

DOC

- Onboard 32MB/64MB (Optional)

Environment & Power Consumption

- **Power Requirement (+5V only) :**
6.5 Watt typical ; (Intel Celeron 400 MHz with 256 MB SDRAM)
14.5 Watt typical ; (Intel Pentium-III Tualatin 800 MHz with 256 MB SDRAM)
- **Operating Temperature:** 0 ~ 60°C (32 ~ 140°F)
- **Relative Humidity:** Up to 90% @ 55°C

Mechanical

- **Dimension (L x W) :** 114 x 95 mm (4.5" x 3.7")
- **Weight :** 87 grams (0.19 lb)

Ordering Information

- **OEM**
EmETX-i602/P933
Intel® Pentium® III Tualatin 933 MHz, VIA Twister-T™ ETX Module
- **Standard**
EmETX-i602/P800
Intel® Pentium® III Tualatin 800 MHz, VIA Twister-T™ ETX Module
EmETX-i602/C650
Intel® Celeron 650 MHz, VIA Twister-T™ ETX Module
EmETX-i602/C400
Intel® Celeron 400 MHz, VIA Twister-T™ ETX Module
- **Related Products**

PBE-1000	Page 1-7
ATX form factor evaluation board for ETX Modules	
HS-5102	Page 3-53
2631150982300, heatsink with fan for EmETX-i602	
HS-5003	Page 3-54
2631171002007, heatsink without fan for EmETX-i602	
HS-5004	Page 3-54
2631160981501 slim type heatsink without fan for EmETX-i602	
SODIMM Modules	
64 MB 5150064001440	128 MB 5150128001440
256 MB 5150256001440	512MB 5150512001440