

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

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

I/O

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

Ethernet

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

Audio

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|--------------------------|--|
| Codec / Interface | VIA VT1612A AC97 Codec, support Mic-in / Line-in / Line-out |
|--------------------------|--|

Display

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|---------------------------|--|
| Graphics Chipset | VIA Twister-T S3 Savage4 Engine, up to 32MByte UMA Video RAM |
| Graphics Interface | 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

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

Ordering Information

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

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