

EmCORE-v611

3.5" VIA Eden Minboard with LCD/CRT, Audio, and Dual LAN

Embedded
Miniboards



Features

- VIA Low Power Eden 300MHz (ESP3000) up to 1GHz (ESP10K) CPU FSB66/100/133MHz
- 128 MB SDRAM onboard and 1 x 144Pin SO-DIMM up to 512MB SDRAM, total 640MB SDRAM
- Support CRT/LCD
- Support 2 x Realtek 8100BL 10/100base-T Fast Ethernet
- Support Unique Board ID# for software based security and IP protection

System

CPU	VIA Low Power Eden 533MHz up to 1 GHz CPU FSB66/100/133MHz
Cache	2nd level 64KByte
Memory	128MB SDRAM onboard and 1 x 144Pin SO-DIMM up to 512MB SDRAM, total 640MB SDRAM
Chipset	VIA Twister-T VT8606T + VIA VT82686B
BIOS	Phoenix-AWARD PnP Flash BIOS
ATA/IDE	1 x Ultra DMA 33, support 2 IDE drives
Flash Disk	1 x Type II Compact Flash Disk Socket
Watchdog Timer	127-level Reset

I/O

Serial port	1 x RS-232 port (COM1) 1 x RS-232/422/485 port (COM2)
Parallel port	SPP/EPP/ECP mode
Floppy	Support 2 Floppy disk drives
IrDA	1 x SIR IrDA 1.1 compliant
USB	4 x USB 1.1 compliant
KB/MS	1 x PS2 K/B and Mouse
Expansion Bus	1 x 16 bit ISA-based PC/104 interface
Digital I/O	8 bit Digital Input/Output

Ethernet

Chipset	2 x Realtek 8100BL 10/100base-T 2 x Intel 82559 10/100base-T (Optional) Built-in Boot ROM in Flash BIOS, support Boot from LAN
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Audio

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

Graphics Chipset	VIA Twister-T S3 Savage4 Engine up to 32MByte UMA Video RAM
Graphics Interface	CRT support up to 1920 x 1440 LCD support 18 bit LVDS up to 1280 x 1024 LCD support 18/24/36 bit TTL up to 1280 x 1024

Mechanical & Environmental

Power Consumption	EmCORE-v611VL2R/E533 5V/3.4A (Max.)
Operating Temp.	0 ~ 60°C (32 ~ 140°F)
Operating Humidity	0 ~ 90% (non-condensing)
Dimension (L x W)	145 x 102mm (5.7" x 4")

Ordering Information

EmCORE-v611VL2R/E533	3.5" Embedded VIA Eden 533MHz miniboard with 128MB SDRAM, Dual Realtek 8100BL Fast Ethernet, AC97 3D Audio, PC/104 and Compact Flash
EmCORE-v611VL2N/E533(optional)	Same as above with dual Intel 82559 Fast Ethernet
Cable Kit	CBK-09-0611-00
Power Converter	FCDB-1272 DC to DC power module Page 5-8
Memory Module	SDRAM 64MB SO-DIMM 144Pin SDRAM 128MB SO-DIMM 144Pin SDRAM 256MB SO-DIMM 144Pin SDRAM 512MB SO-DIMM 144Pin