

EmCORE-v611



VIA Eden 400MHz ~ Ezra 800MHz installed



AC97 Audio



Dual LAN 10/100



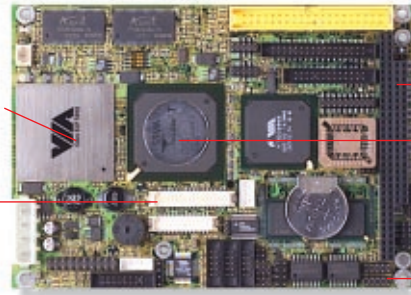
CRT Display S3® Savage4



TTL and LVDS



Onboard 128MB SDRAM
1 x SODIMM up to 512MB SDRAM



VIA Ultra Low Power Embedded Eden 533 MHz

Flat Panel TTL/LVDS

PC/104 connector

4x AGP S3® Savage4™ 3D and S3® Savage 2000™ 2D

Dual 10/100 Fast Ethernet

AC97 3D Audio

Low Power VIA C3 Miniboard

with Flat Panel / CRT SVGA, Dual Ethernet and Audio

General Specifications

CPU (installed)

VIA Ultra Low Power Embedded Eden 400MHz ~ Ezra 800MHz processor with FSB 100, 133 MHz EBGA package. Available in different speeds by OEM order.

Chipset

VIA VT8606 Twister™ North Bridge with integrated Savage4™ AGP 4X Graphics core and VT82C686B "Super" Southbridge

BIOS

AWARD 256 KB Flash BIOS

Green Function

power saving options supported in BIOS. DOZE / STANDBY / SUSPEND modes

DRAM Memory

onboard 64 MB or 128 MB (default) SDRAM, one SO-DIMM socket supports up to 512 MB SDRAM, total memory capacity up to 640 MB

Bus Interface

PC/104 (8/16-bit ISA)

PCI Enhanced IDE with Ultra DMA

supports 1 port and up to 2 ATAPI devices, Ultra DMA transfer 33/66 and 100 MB/sec one 44-pin (2.0 pitch) box header

Watchdog Timer

128-level timer generates RESET or NMI when your application loses control over the system.

Real-time Clock

built-in chipset with lithium battery backup for 10 years of data retention

Digital I/O

16-bit GPIO, 8 independent GPI and 8 independent GPO programable by software.

AudioChipset

Chipset

VIA VT82C686B, AC97 2.0compliant, Multi-stream Direct Sound and Direct Sound 3D acceleration. LINE-in, CD Audio in, Mic in, Speaker out

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 port (COM2)

Both with 16C550 UART and 16 byte FIFO.

USB Ports

two USB ver1.1 ports

SIR Interface

onboard IrDA TX/RX port

Floppy Disk Drive Interface

supports 1 floppy disk drive, 3½" (720 KB, 1.44 MB, 2.88MB)

Bi-directional Parallel Port

supports SPP, EPP and ECP mode.

BIOS enabled/disabled

Keyboard and Mouse Connectors

External PS/2 KB/Mouse port (2-in-1 mini DIN)

onboard AT Keyboard port (5-pin box header)

Network Interface

Chipset

2x Intel 82559, 10/100 Mbps, autoswitching or

2x RTL8139C, 10/100 Mbps, autoswitching

Connector

external RJ-45 with LEDs

SSD Interface

SSD Type

One Compact Flash socket supports Type I/II Compact Flash Cards (CFC)

Capacity

up to 512MB CFC

Display Controller

Chipset

4x AGP S3® Savage4™ 3D and S3® Savage 2000™ 2D engines integrated in VT8606

Supports up to 32 MB (shared) memory

Display Type

CRT (VGA, SVGA, XGA, SXGA), TTL, LVDS, Flat Panel connections.

Resolution

1600x1200 @ 16 bpp or 1280x1024 @ 32 bpp

Environmental and Power

Power Requirements

+5 V @ 1.8 A, +12V @ 0.13 A (typical) ; (with Low Power Embedded C3 533 MHz and 128MB SDRAM)

Board Dimensions

145 x 102 mm

Board Weight

0.18 Kg

Operating Temperature

0 to 60°C (32 to 140°F)

Ordering

EmCORE-v611VL2/N: 3.5" Embedded VIA Eden 533 MHz Miniboard with 128 MB SDRAM, Dual Intel 82559 Fast Ethernet, AC97 3D Audio, PC/104 and Compact Flash interface (OEM)

EmCORE-v611VL2/R: Same as above with Dual Realtek 8139C Fast Ethernet interface



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