EmCORE-v615

CPU	VIA Eden 400MHz ~ Ezra 800MHz installed
AC97 Audio	Triple LAN 10/100
CRT Display S3® Savage4	TTL, LVDS, TMDS, TV-Out options

CRT VGA — **AC97 3D Audio** — **Triple 10/100 Fast Ethernet**

Onboard 128MB SDRAM
1 x SODIMM up to 256MB SDRAM

32-bit PCI-based PC/104-Plus
8/16-bit ISA-based PC/104

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

VIA Ultra Low Power Embedded Eden 533 MHz

DiskOnChip Socket

4-pin Power

Flat Panel SVGA

4 x Serial Ports
2 x Parallel Ports
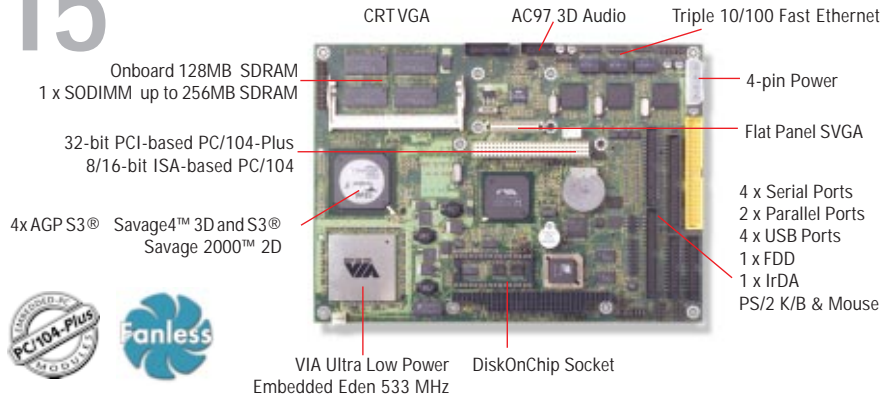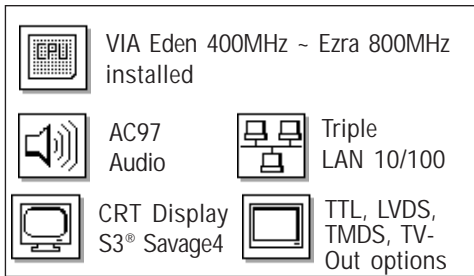4 x USB Ports
1 x FDD
1 x IrDA
PS/2 K/B & Mouse

Low Power VIA C3 EBX — with Flat Panel / CRT SVGA, Triple Ethernet and Audio

General Specifications

CPU (installed)
VIA Ultra Low Power Embedded Eden 400MHz ~ Ezra 800MHz processor with FSB 66, 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 128/256 MB SDRAM, one SO-DIMM socket supports up to 512 MB SDRAM, total memory capacity up to 768 MB

Bus Interface
PC/104-Plus (PCI + ISA)

PCI Enhanced IDE with Ultra DMA
supports 2 ports and up to 4 ATAPI devices, Ultra DMA transfer 33/66 and 100 MB/sec one 40-pin (2.45 pitch) box header and 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

AudioChipset

Chipset
VIA VT82C686B, AC97 2.0compliant, Multi-stream Direct Sound and Direct Sound 3D acceleration

Interface
LINE-in, CD Audio in, Mic in, Speaker out

PC/104-*Plus* Interface

Bus types
104-pin ISA (8/16-bit) and 120-pin PCI (32-bit)

High Speed Multi I/O

Chipset
included in VT82C686B "Super" Southbridge

Serial ports
3 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
four USB ver1.1 ports

SIR Interface
onboard IrDA TX/RX port

Floppy Disk Drive Interface
supports 2 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
3x Intel 82559 (EmCORE-v615VL3/N Series)
3x RTL8139C (EmCORE-v615VL3/R Series)

Type
10BASE-T / 100BASE-TX, autoswitching

Connector
external RJ-45 with LEDs

Flash Disk DiskOnChip® 2000

Package
Single Chip FlashDisk in 32-pin DIP JEDEC

Capacity
up to 288 MByte

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) Daughterboard kits available for TTL, LVDS, TMDS (DFP) Flat Panel and TV-Out connections.

Resolution
1280x768 @ 16 bpp or 1280x1024 @ 8bpp

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
203 x 146 mm

Board Weight
0.4 Kg

Operating Temperature
0 to 60°C (32 to 140°F)

Ordering

EmCORE-v615VL3/N: 5.25" Embedded VIA Eden 533 MHz Miniboard with 128 MB SDRAM, Triple Intel 82559 Fast Ethernet, AC97 3D Audio, PC/104-Plus and Compact Flash interface

EmCORE-v615VL3/R: Same as above with Triple Realtek 8139C Fast Ethernet interface

SCDB-1221: Flat Panel TTL/LVDS/TV-Out Daughterboard

SCDB-1222: Flat Panel TMDS/TV-Out Daughterboard

Note all specifications are subject to change without notice