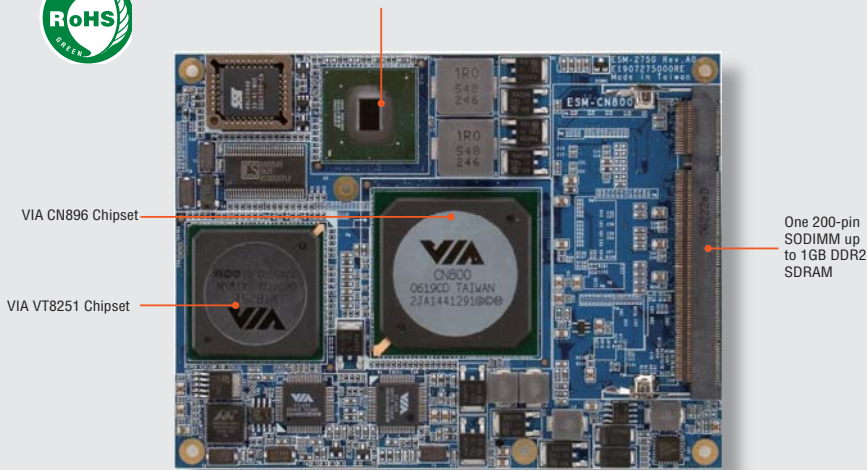


# ESM-CN896

## VIA CN896 Eden V4 ETXexpress Module



Onboard VIA Eden V4 1GHz CPU



## Features

- Onboard VIA Eden V4 1 GHz CPU
- VIA CN896 VT8251 Chipset Supports MPEG-2 Decoder
- One SODIMM up to 1 GB DDR2 SDRAM
- 2-CH LVDS, Dual View
- Marvell 88E8053 PCIe Gigabit LAN
- 4 SATA II, 8 USB 2.0, 8-bit GPIO
- Fanless Possible Operation

VIA  
Eden

DDR2

Gigabit  
LAN

Fanless

8 USB  
2.0

## Specifications

### System

• CPU	Onboard VIA Eden V4 1 GHz CPU
• BIOS	Award 512KB Flash BIOS
• System Chipset	VIA CN896 / VT8251
• System Memory	One 200-pin SODIMM socket supports up to 1 GB DDR2 400/533 SDRAM
• Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
• Expansion	4 PCI slots (PCI Rev. 2.3 compliant), 2 PCIe x 1, 1 PCIe x 16 (Optional)

### I/O

• MIO	2 x EIDE (Ultra DMA 100) , 1 x K/B, 1 x Mouse, LPC, 4 SATA II
• IrDA	115k bps, IrDA 1.0 compliant
• USB	8 x USB 2.0 ports
• DIO	4-bit GPI and 4-bit GPO

### Display

• Chipset	VIA Prosavage CN896 with integrated UniChrome Pro IGP Graphics Core supporting Chromotion CE video display engine & MPEG-2 decoder
• Display Memory	16/32/64 MB frame buffer using system memory
• Resolution	CRT mode: 1920 x 1440 @ 24bpp (75Hz) LCD/Simultaneous mode: 1600 x 1200 @ 60Hz
• Multiple Display	CRT + LVDS
• VGA/LVDS Interface	AGP 8X VGA/LCD interface
• LVDS Interface	Dual Channel 18/24-bit LVDS VIA VT1636 LVDS transmitter

### Audio

• Chipset	VIA VT8251
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### Ethernet

• LAN1	Marvell 888053
• Ethernet Interface	1000 Base-T Gigabit Ethernet Compatible

### Mechanical & Environmental

• Power Type	ATX
• Operating Temperature	0~60°C (32~140°F)
• Operating Humidity	0%~90% relative humidity, non-condensing
• Size (L x W)	5" x 3.7" (125 mm x 95 mm)
• Weight	0.44 lbs (0.2 Kg)

## Ordering Information

- **ESM-CN800**  
VIA CN800/CN896 Eden V4 ETXexpress Module
  - **EEV-EX11** P.1-10  
ETXexpress Evaluation Carrier Board
  - **ACC-CN800HS-01R**  
Heat Spreader for ESM-CN896 (125 x 95 x 11 mm)
  - **ACC-CN800HS-02R**  
Heat Sink for ESM-CN800
  - **ACC-ETEHS-01R**  
Heatsink for ETX Express Heat Spread w/o Fan (125 x 95 x 30.4 mm)
  - **ACC-ETEHS-02R**  
Heatsink for ETX Express Heat Spread with Fan (125 x 95 x 30.4 mm)
- Note: Cable kit not included**

01  
ETX

02  
3.5"

03  
EPIC

04  
5.25"

05  
PC/104

06  
Embedded  
System

07  
Smart  
Terminal

08  
InnoFlex  
PPC

09  
ACC