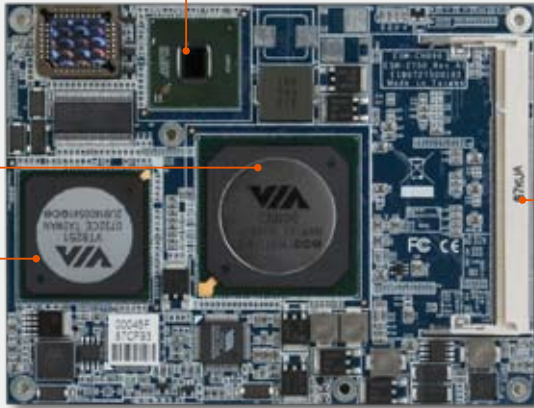




Onboard VIA Eden V4 1 GHz CPU

VIA CN896 Chipset

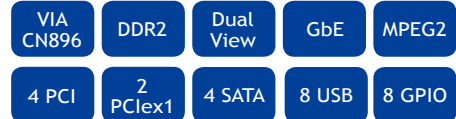
VIA VT8251 Chipset



One 200-pin SODIMM up to 1GB DDR2 SDRAM

Features

- Onboard VIA Eden V4 1 GHz CPU
- VIA CN896 / VT8251 Chipset Supports MPEG-2 Decoder
- One 200-pin SODIMM up to 2 GB DDR2 SDRAM
- Dual View, 2-CH LVDS, Optional TV-out, Audio
- Marvell 88E8053 Gigabit Ethernet
- 4 PCI, 2 PCIe1, Optional 1 PCIe16
- 4 SATA, 8 USB, 8-bit GPIO



Specifications

System

• CPU	Onboard VIA Eden V4 1 GHz CPU
• BIOS	Award 4 Mbit Flash BIOS
• System Chipset	VIA CN896 / VT8251
• System Memory	One 200-pin SODIMM socket supports up to 1 GB DDR2 400/533 SDRAM
• Expansion	4 PCI (PCI Rev. 2.3 compliant), 2 PCIe1, 1 PCIe16 (Optional)

I/O

• MIO	2 x EIDE (Ultra DMA 100), 4 x SATA
• 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 @ 16 bpp (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
• TV-out	VIA VT1625 Supports HDTV (Optional)

Audio Interface

• Chipset	VIA VT8251
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Ethernet

• LAN	Marvell 88E8053 Gigabitethernet
• Ethernet Interface	1000 Base-T Gigabit Ethernet Compatible

Mechanical & Environmental

• Power Requirement	+12 V @ 2.73 A, 5 Vsb @ 0.23 A (with VIA Eden 2 GHz & 256 MB DDR2 533 SDRAM)
• 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-CN896**
VIA CN896 Eden V4 1 GHz COM Express Module
- **EEV-EX11**
COM Express Evaluation Carrier Board
- **ACC-HSP-CN8-1R**
Heat Spreader for ESM-CN896, 125 x 95 x 11 mm
Note: Cable kit not included

1
Embedded System

2
LPC Series

3
PPC Series

4
FPC Series

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VTP Series

6
MTP Series

7
ETX/COM Express

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3.5" SBC

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