AR-B1640

Half-size VIA EDEN/C3 PCI SBC with VGA(CRT/LCD/LVDS), LAN, DOC

Connector labels: COM2, SODIMM (On Solder Side), Audio Connector, IDE1, Floppy Connector, IR Connector, Parallel Port, Power Connector, IDE2, LVDA Connector, LCD Connector, VIA Eden Processor, CRT Display, Ethernet 10/100 Base-T, COM 1, PS/2 KB/ Mouse Connector, DOC Socket (On Solder Side), PC/104, USB Connector
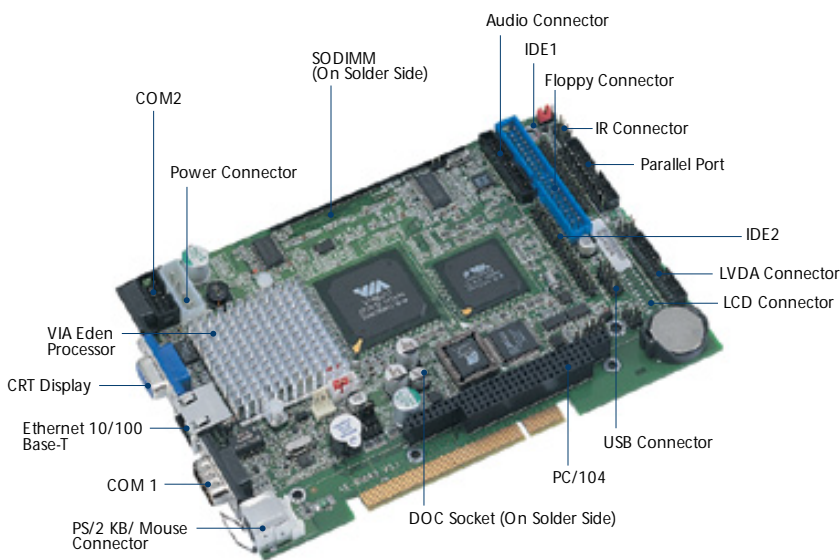
Features ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

- On-board fanless VIA Eden 600 MHz CPU
- VIA VT8601T + VT82C686B Chipsets
- On-board 144-pin SoDIMM socket maximum supports 512MB memory
- Supports one socket for Disk On Chip (DOC)
- On-board 10/100M Base-T Ethernet function
- Dimensions: 185 x 122 mm

Specifications

General

CPU	On-board fanless VIA Eden 600MHz CPU (Optional: C3 and other frequencies)
Chipset	VIA VT8601T + VT82C686B
BIOS	AMI
System Memory	Supports SDRAM PC133; One 144-pin SoDIMM socket maximum supports 512MB memory
Watchdog	Software programmable 1~63 seconds
RTC	Supports ACPI function with 7 years data retention
Serial Port	One D-SUB 9-pin male connector at bracket for COM1 with RS-232C/RS-485 On-Board one 2 x 5 x 2.54 mm pin-header connector for COM2 with RS-232C/Touch Screen
Parallel Port	On-board one 2x13x2 mm pin-header connector for Parallel port, supports SPP/EPP/ECP modes
IDE	On-board One 2x20x2.54mm pin-header connector, supports Ultra DMA 33/66/100 On-board One 2x22x2.00mm pin-header connector, supports Ultra DMA 33/66/100, supports Flash Disk and CF adaptor
FDD interface	On-board one 2x17x2.54mm pin-header connector
USB	On-board one 2x5x2.54mm pin-header connector for 2 USB ports, USB 1.1 compliant
Keyboard and PS/2 mouse	On-board PS/2 Keyboard and Mouse connector
H/W monitoring	VT82C686B included, supports Power Voltage, and CPU temperature monitoring
Audio	Optional (AR-B9425A with 26 pin connector)

VGA Display

Chipset	Chipset built-in 4x AGP graphic controller
Memory	SMA, shared system memory 2~8MB (8602)
Interface	CRT - D-SUB 15-pin female connector at bracket LCD - Support up to 18 bit for TFT

LAN

Chipset	On-Board one Realtek RTL 8100B supports 10/100Mbps Ethernet & boot on Lan
Interface	RJ-45 connector built-in LED at bracket

Solid State Disk

Solid State Disk	One onboard socket for Disk On Chip (DOC) memory capacity 8~288 MB

Mechanical and Environmental

Power requirements	+5V & +12V, supports AT/ATX power function, wafer 5.08 mm, 4 pin, male 180 degree, white for PCB
Dimensions	185 mm x 122 mm (7.3" x 4.8")
PC Board	8 layers
Operating temperature	0~60°C
Storage temperature	-20~80°C
Operating humidity	0% ~ 90% Relative humidity non-condensing

Ordering information

Model No.	Description	Accessories
AR-B1640	Half-size VIA EDEN/C3 PCI SBC with 4 x AGP graphics, LCD, LAN, DOC	**1. Cables:** HDD/FDD cables, Parallel/COM port cables and PS/2 Y cable for keyboard & mouse **2. CD drivers:** IDE, VGA, LAN, drivers for Windows 95/98, NT, OS/2, Linux **3. Optional AR-B9462A compact flash connector** **4. Optional AR-B9425A audio connector**