

SBC-657



Embedded low power VIA Eden 667 MHz

Fanless, 0 ~ 60°C (32 ~ 140°F) operation

Realtek RTL 8139C 10/100Base-T Fast Ethernet

Supports Compact Flash (SSD) over 1 GB

PISA bus interface

PC/104 expansion connector

The SBC-657 is an all-in-one VIA Eden processor based single board computer (SBC) with a AGP CRT/LCD controller, a PCI 100Base-T Ethernet interface. The SBC-657 achieves outstanding performance that surpasses any other SBC in its class. In addition, the onboard SSD interface supports type II Compact Flash, with memory capacity above 1 GB. Onboard features include four serial ports (three RS-232, one RS-232/ 422/485), one multi-mode parallel (ECP/EPP/SPP) port, Pin header for four USB (Universal Serial Bus) ports, a floppy drive controller, and a keyboard-PS/2 mouse interface. The built-in high speed PCI IDE controller supports Ultra DMA/100 mode. Up to two IDE devices can be connected, including large hard disks, CD-ROM drives, and tape backup drives, etc. The SBC-657 also features power management to minimize power consumption. It complies with the ACPI standard and supports three types of power saving features: doze, standby, and suspend mode. In addition, the board's watchdog timer can automatically reset the system or generate an interrupt in case the system stops due to a program bug or EMI. The SBC-657 is a highly integrated SBC that combines, video, and network functions on a single computer board. It provides up to 1280 x 1024 resolution @ 24 bit color utilizing shared display memory up to 32 Meg. Major onboard devices adopt PCI technology to achieve outstanding computing performance making the SBC-657 one of the world's best and most powerful all in one Single Board Computer.

Specifications

SBC Type:
ECOT Single Board Computers
Processor
Processor:
Embedded low power VIA Eden
Clock Speed:
667 MHz
Real Time Clock:
Processor Misc.:
Chipset: VIA VT8806/VT82C686B

Memory
Primary Flash:
1x CompactFlash™ card Type I/II

Primary I/O
Disk interface:
2x FDD
2x EIDE (Ultra DMA100)
Ethernet:
IEEE 802.3u 10/100BASE-T Fast Ethernet compatible with on-board RJ-45 connectors Realtek RTL 8139C
USB:
2x USB
Serial Ports:
1x Parallel SPP/EPP/ECP
3x RS-232
1x RS-232/422/485
Watchdog:
Primary I/O Misc.:
I/O Chipset: VT82C686B

IR interface: Supports one IrDA Tx/Rx header

DMA: 7 DMA channels (8237 equivalent)

Interrupt: 15 interrupt levels (8259 equivalent)

Flat panel/CRT interface

Chipset: VIA Twister™ chip with integrated Savage4™ 2D/3D/Video Accelerator

Frame buffer: Supports 8/16/32MB frame buffer with system memory

Interface: 4X AGP VGA/LCD interface, Support for 9, 12, 15, 18, 24, 36 bit TFT and optional 16- or 24-bit DSTN panel

Secondary I/O
LPT Port:

Keypad:

PS/2:

Analog on
A/D:

D/A:

Dimensions
Dimensions:

7.3 × 4.8 in

Weight:

0.3 kg

Form Factor:

Half Size PISA Card

Power Requirements

Voltage:

5 V

Typical Current:

3.3 A

Typical Voltage:

5 V

Power Misc.:

Battery: Lithium battery for data retention

Power management: I/O peripheral devices support power saving and doze/ standby/ suspend modes. APM 1.2 compliant

Environmental

Low Operating Temperature:

0 C

High Operating Temperature:

60 C

Pricing

SLC-657-01

Half-Size VIA EDEN PISA Slot Card W/ ATX

\$0.00

Parent Product:

SBC-657-0

Half-Size VIA EDEN PISA Slot Card W/ ATX

\$0.00

Parent Product:

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