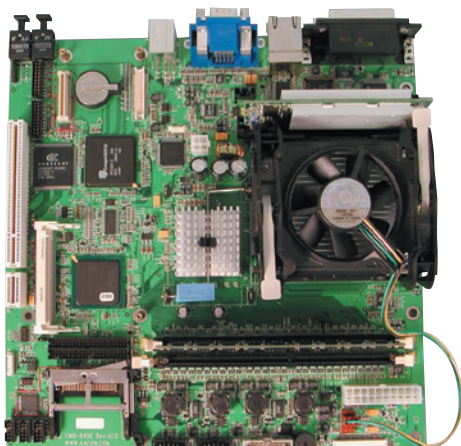


EMB-845E

Socket 478 based Pentium 4/Celeron Embedded-ATX Board

www.aaeon.com



Features

- Embedded ATX form factor
- Supports Intel Pentium 4/4-M/Celeron processors and DDR RAM up to 2GB
- Supports 6 channel surround sound
- Integrated Hampshire TSHARC-12 PS/2 touch screen controller
- Mini-PCI and PCI sockets
- Video-in port for connection to optional TV tuner module

Specifications

- **CPU** Support for Pentium 4 and Celeron Socket-478 processors Support for Pentium 4 mobile processors 533/400 MHz Front Side Bus frequency
- **Core Chipset** Intel 845E chipset 82845E Graphics and Memory Controller Hub (GMCH) 82801DB I/O Controller Hub (ICH4)
- **Memory** Up to 2 GB with two DDR DIMM sockets Supports 266/200 MHz DDR memory modules
- **BIOS** 4MB Firmware hub supports on board BIOS upgrade Customer logo for boot screen is available.
- **EIDE I/F** Two EIDE connectors support up to four IDE devices Ultra ATA 100 support for 2 IDE devices Optional type2 Compact Flash socket (via 2nd EIDE)
- **VIDEO** Silicon Motion Cougar 3D (SM731) Video Controller TFT panel support up to 1600x1200 Two built-in LVDS transceiver channels supports 18/24/48 bit LVDS panels. QuickRotate feature implemented in hardware for instant rotation of display. DualMon technology allows operation of two independent displays.

Touch Screen Interface

- **Touch Screen** Hampshire TSHARC-12 PS/2 to touch screen controller Supports both 4 and 5 wires touch

Audio I/F

- **Sound I/F** REALTEK ALC650 High Performance CODEC Integrated 6 channels Surround Sound AC-97 Interface with MIC, Line-In, Line-Out functions. 5.1 surround sound.
- **Audio**

I/O Expansions

- **Ethernet I/F** One 100/10 Base-T Ethernet port
- **USB Ports** Six USB ports Supports over current detection and protection BIOS supports boot from USB storage device
- **Serial Ports** Two RS-232 / 485 selectable serial ports
- **Parallel port** One parallel port supports EPP/ECP/SPP mode.
- **PS/2 Ports** PS/2 keyboard
- **GPIO Ports** Optional 8 user programmable ADC pins Optional 16 user programmable GPIO pins
- **IrDA I/F** One IrDA port
- **PCI** One PCI slot (supports 4 PCI cards with optional riser card) One mini PCI socket PCI Rev 2.2 compliance with 133MB/sec maximum throughput

System Monitor

Winbond W83791D system monitor with Voice Error Reporting, 3 temperature, 9 voltages, and two fan speed sensors.