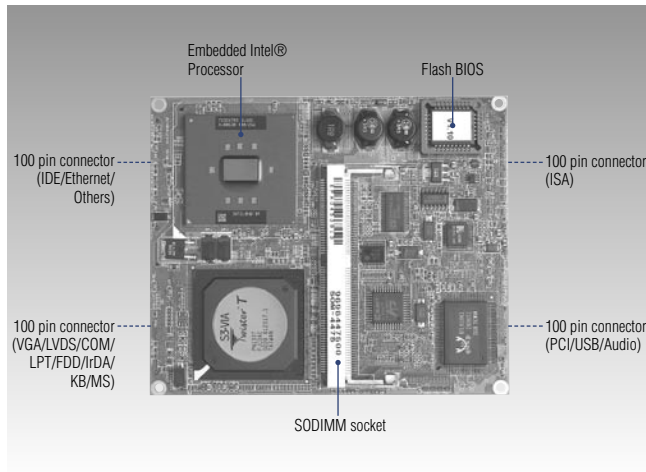


SOM-4475 Series

VIA SOM-ETX Module
w/CPU, VGA, LCD/LVDS, Audio, LAN



Specifications

- **CPU** LV Intel Pentium III 933 MHz/ULV Celeron 650 & 400 MHz
 - **System Memory** SDRAM SODIMM x 1, Max. 512 MB (optional 1 GB)
 - **2nd Cache Memory** 512 KB on PIII and 256 KB on Celeron CPU
 - **System Chipset** VIA 8606 (Twister T)/82C686
 - **BIOS** AWARD 256 KB Flash BIOS
 - **Watchdog Timer** 1 - 62 sec, system reset
- I/O**
- **MIO** 2 x EIDE (Ultra DMA66), 1 x FDD/LPT, 1 x K/B, 1 x Mouse, 2 x RS-232
 - **IrDA** 115 Kbps, IrDA 1.1 compliant
 - **Audio** VT 82C686, AC97 2.0 compliant, Mic in, Line in, Line out
 - **USB** 4 USB ports, USB 1.1 compliant
- Ethernet**
- **Chipset** RTL 8139
 - **Ethernet Interface** IEEE 802.3u 100Base-T Fast Ethernet
Built-in boot ROM

Features

- Embedded LV Intel® Pentium® III/ULV Celeron® processor
- Fanless, 0 ~ 60° C operation (SOM-4475F-J0A1 & SOM-4475FL-J0A1)
- ETX form factor
- Powerful multimedia capability
- 18-bit LCD/2-channel LVDS interface

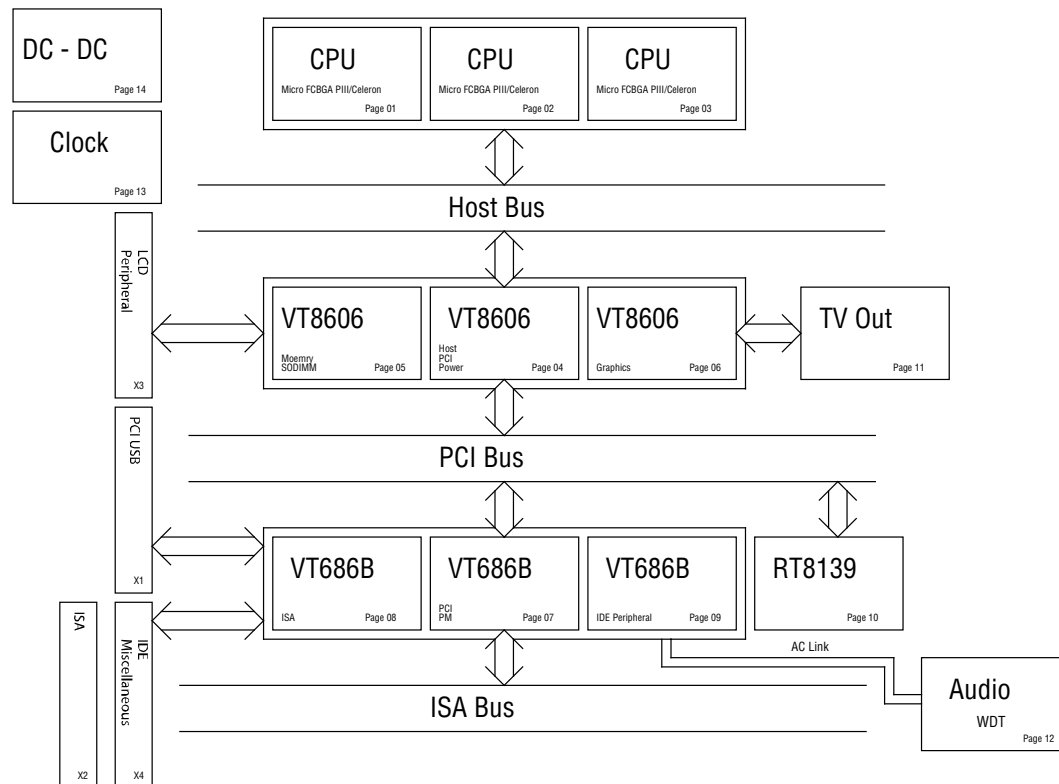
Display

- **Chipset** VIA Twister chip with Integrated S3 Savage4 2D/3D/ Video Accelerator
- **Memory Size** 8/16/32/64 MB frame buffer using system memory
- **Resolution** CRT Mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp (85 Hz)
LCD/Simultaneous Mode: 1280 x 1024 @ 16 bpp (60 Hz), 1024 x 768 @ 16 bpp (60 Hz)
- **LCD Interface** 4X AGP VGA/LCD interface. Supports 18-bit TFT panels up to XGA resolution
- **LVDS Interface** 2 channel (2 x 18-bit) LVDS interface

Mechanical and Environmental

- **Dimensions (L x W)** 95 x 114 mm (3.7" x 4.5")
- **Power Supply Voltage** + 5 V $\pm$ 5%
- **Power Requirements** Max: 5 V @ 4.6 A
Typical (256 MB DRAM):
5 V @ 3.41 A (PIII 933 MHz)
5 V @ 2.95 A (Celeron 650 MHz)
5 V @ 2.44 A (Celeron 400 MHz)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0 ~ 90% relative humidity, non-condensing system

Board Diagram



Ordering Information

Standard

- **SOM-4475F-R0A2E** Intel PIII LV 933 MHz SOM-4475
- **SOM-4475F-M0A2E** Intel Celeron ULV 650 MHz SOM-4475
- **SOM-4475F-J0A2E** Intel Celeron ULV 400 MHz SOM-4475
- **SOM-4475FL-R0A2E** Intel PIII 933 MHz SOM-4475
- **SOM-4475FL-M0A2E** Intel Celeron 650 MHz SOM-4475
- **SOM-4475FL-J0A2E** Intel Celeron 400 MHz SOM-4475
- **SOM-DB4400-00A2** SOM-ETX Development Board Rev. A2

Optional

- **SOM-FANKIT-1000** Fan Kit for SOM-ETX