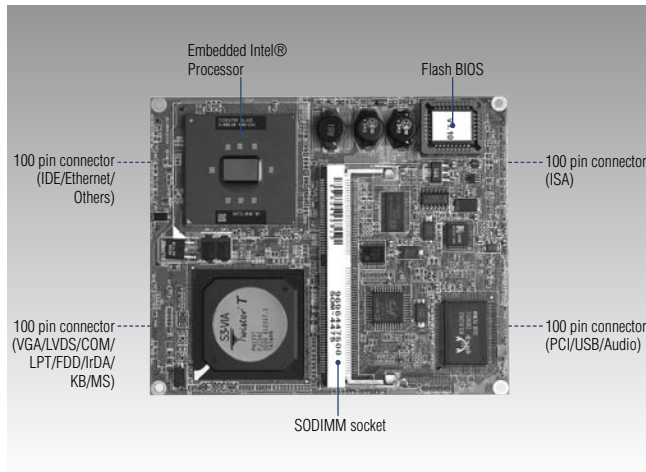


# SOM-4475 Series

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 Keyboard, 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 x USB ports, USB 1.1 compliant
- Ethernet**
- **Chipset** Realtek™ RTL8139 10/100Mbps Ethernet Chip
  - **Ethernet Interface** IEEE 802.3u 100Base-T Fast Ethernet  
Built-in boot ROM

## Features

- Embedded Intel® LV Pentium® / ULV Celeron® processor
- VIA® VT8606 integrated graphic accelerator
- Supports SDRAM memory
- Supports LVDS or TTL TFT panel
- Supports four USB/ two COMs / Audio / LAN

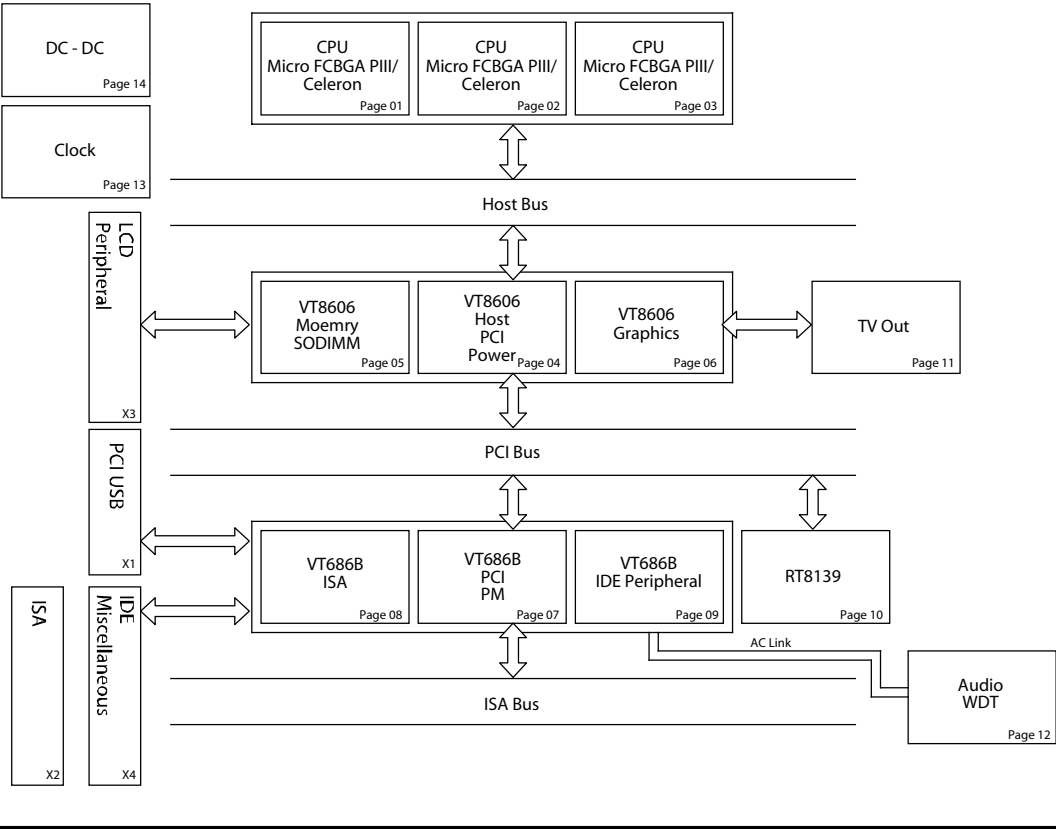
## Display

- **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 ±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**

Part No.	CPU	LCD
SOM-4475F-J0A1E	Intel Celeron ULV 400 MHz	TTL
SOM-4475F-M0A1E	Intel Celeron ULV 650 MHz	TTL
SOM-4475F-R0A1E	Intel Pentium III LV 933 MHz	TTL
SOM-4475FL-J0A1E	Intel Celeron ULV 400 MHz	LVDS
SOM-4475FL-M0A1E	Intel Celeron ULV 650 MHz	LVDS
SOM-4475FL-R0A1E	Intel Pentium III LV 933 MHz	LVDS

**Development Board**

Part No.	Description
SOM-DB4400-00A2	Development Board for SOM-ETX Rev.A2