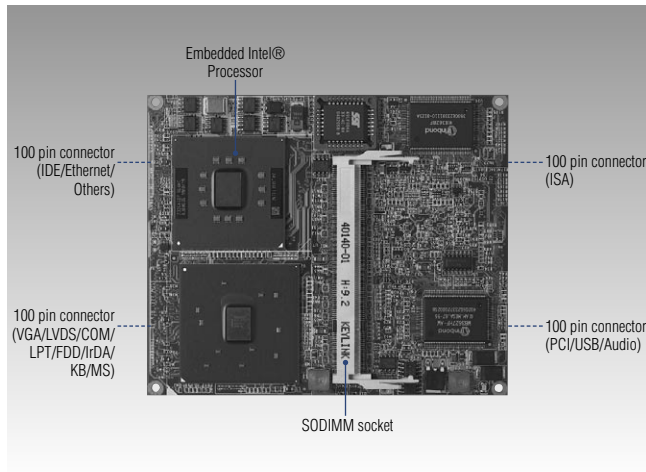


# SOM-4481 Series

Intel® Pentium® M SOM-ETX  
Module with CPU, VGA/LVDS,  
Audio & LAN



## Specifications

- **CPU** Embedded Intel Pentium M or Celeron M processor w/64 KB primary cache memory
  - **System Memory** 1 x 200 pin SO-DIMM sockets, support ECC Double DataRate (DDR)128 MB to 1 GB, accept 128/256/512/1000 MB DDR200/266/333 DRAM.
  - **2nd Cache Memory** 1 MB on the Pentium M processor or 512 KB on the Celeron M processor
  - **System Chipset** Intel 855GME GMCH/ ICH4 Chipset 400 MHz PSB
  - **BIOS** AWARD 4 Mbit Flash BIOS
  - **WatchDog Timer** 255 levels timer interval, from 1 to 255 sec or min setup by software, jumperless selection, generates system reset
  - **Expansion Interface** Support PCI & ISA interface
- ### I/O
- **MIO** 2 x EIDE (UDMA 66), 1x LPT/FDD (shared), 1 x K/B, 1 x Mouse, 2 x RS232,
  - **IrDA** 115 Kbps, IrDA 1.1 compliant.
  - **USB** 4 USB 2.0 compliant ports
- ### Ethernet
- **Chipset** Intel 82551QM
  - **Ethernet Interface** IEEE 802.3u 100Base-T compatible Built-in boot ROM in Flash BIOS

## Features

- Embedded Intel® Pentium® M/Celeron® M processor
- Supports ECC DDR Memory
- With Vcore 2 phase design for more stable system
- Supports 4 ports host USB 2.0
- Supports up to dual channel LVDS panels

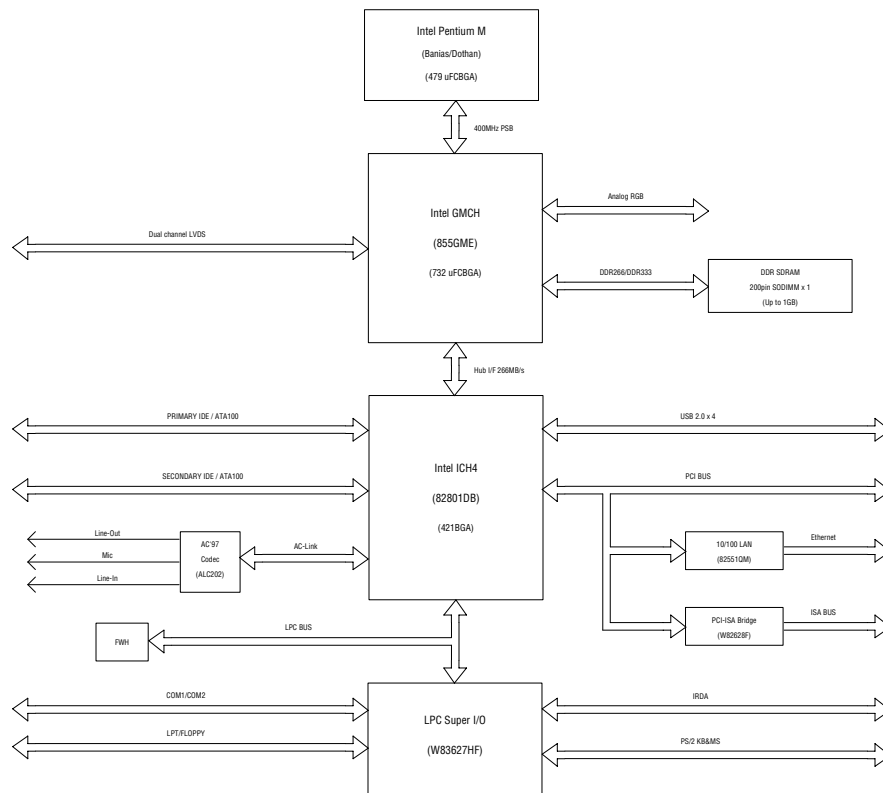
## Display

- **Chipset** Intel 855GME
- **Memory Size** Optimized shared memory architecture, supports up to 32 MB frame buffer using system memory
- **Resolution**
  - \* CRT Display mode Pixel resolution up to 1600 x 1200 at 85 Hz and 2048 x 1536 at 75 Hz
  - \* LCD Display mode Dual channel LVDS panel supports up to UXGA panel resolution with frequency range from 25 MHz to 112 MHz

## Mechanical and Environmental

- **Dimensions (L x W)** 95 x 114 (3.74" x 4.5")
- **Power Supply Voltage** +5 V power only
- **Power Requirement** Max: +5 V @ 4 A, Typical: +5 V @ 2.8 A (Pentium M 1.1 GHz, 256 MB DDR 333)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing

## Board Diagram



## Ordering information

### Standard:

- **SOM-4481FL-S0A1** Pentium® M 1.1 GHz w/ CPU/VGA/LCD/Audio/LAN
- **SOM-4481FL-M0A1** Same as SOM-4481FL-S0A1 w/Celeron M 600MHz
- **SOM-4481FL-00A1** Same as SOM-4481FL-S0A1 W/Socket 479 processor support
- **SOM-DB4400-00A2** SOM-ETX Development Board Rev. A2