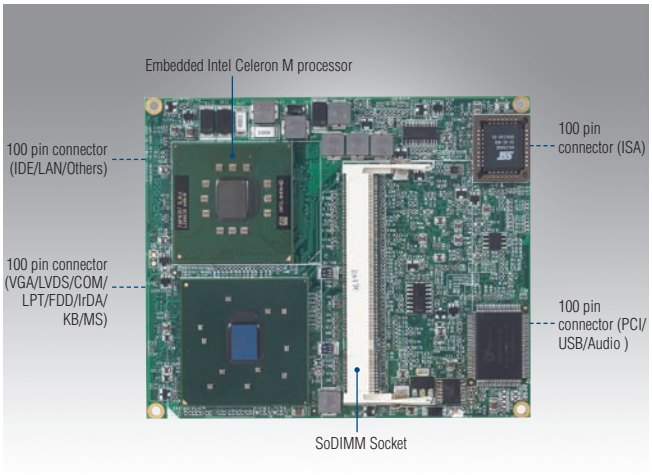
# SOM-4486 Series

## Intel® Celeron® M ETX Module with CPU, VGA/LVDS, Audio & LAN



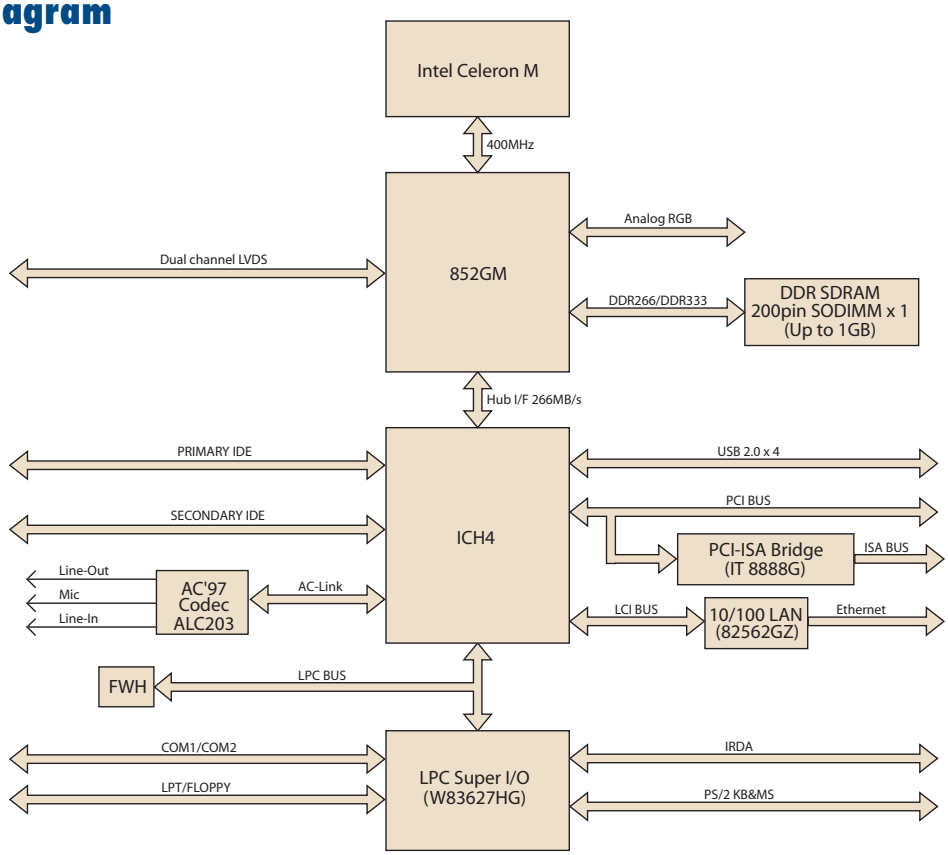

## Features

- Embedded Intel® Celeron® M processor
- Supports DDR Memory
- With Vcore two phase design for more stable system
- 4 USB 2.0 ports
- Supports dual channel LVDS panel

## Specifications

| | | |
|---|---|---|
| Processor System | CPU | Embedded Intel Celeron M processor |
| | System Memory | 1 x 200-pin SODIMM sockets, DDR 200/266 MHz up to 1 GB |
| | System Chipset | Intel 852GM GMCH/ICH4 Chipset 400 MHz FSB |
| | BIOS | AWARD™ 4 Mbit Flash BIOS |
| | WatchDog Timer | 256 levels timer interval, from 1 to 255 sec or min setup by software, jumperless selection, generates system reset |
| | Expansion Interface | Supports PCI & ISA interface |
| I/O | MIO | 2 x EIDE (UDMA 66), 1 x LPT/FDD (shared), 1 x Keyboard, 1 x Mouse, 2 x RS-232 |
| | IrDA | 115 kbps, IrDA 1.1 compliant |
| | USB | 4 x USB 2.0 compliant ports |
| Ethernet | Chipset | Intel 82562GZ 10/100Mbps Ethernet Chip |
| | Speed | 10/100Base-T |
| Display | Chipset | Intel 852GM |
| | Memory Size | DVMT support up to 32 MB |
| | Resolution | CRT Display Mode: Pixel resolution up to 1600 x 1200 at 85 Hz and 2048 x 1536 at 75 Hz<br>LCD Interface: Supports 36/18bit LVDS TFT LCD up to 1280 x 1024 |
| Power | Power Supply Voltage | +5 V power only |
| | Power Requirement | Typical: (1 GB DDR 266)<br>+5 V @ 2.01 A (Intel Celeron M 600 MHz)<br>+5 V @ 2.34 A (Intel Celeron M 373 0 KB)<br>Max: (1 GB DDR 266)<br>+5 V @ 2.40 A (Intel Celeron M 600 MHz)<br>+5 V @ 2.86 A (Intel Celeron M 373 0 KB) |
| Environmental | Operating Temperature | 0 ~ 60° C (32 ~ 140° F) |
| | Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| Mechanical | Dimensions (L x W) | 95 x 114 mm (3.74" x 4.5") |

## Board Diagram




## Ordering Information

| Part No. | CPU | L2 Cache | Operation temp. |
|---|---|---|---|
| SOM-4486FL-M0A3E | Intel Celeron M ULV 600 MHz | 512 KB | 0 ~ 60° C |
| SOM-4486FL-S0A3E | Intel Celeron M ULV 1.0 GHz | 0 KB | 0 ~ 60° C |
| SOM-4486Z-M0A3E | Intel Celeron M ULV 600 MHz | 512 KB | -20 ~ 80° C |
| SOM-4486Z-S0A3E | Intel Celeron M ULV 1.0 GHz | 0 KB | -20 ~ 80° C |
| SOM-4486Z2-M0A3E | Intel Celeron M ULV 600 MHz | 512 KB | -40 ~ 85° C |
| SOM-4486Z2-S0A3E | Intel Celeron M ULV 1.0 GHz | 0 KB | -40 ~ 85° C |

## Development Board

| Part No. | |
|---|---|
| SOM-DB4400-00A2E | Development Board for SOM-ETX Rev. A2 |