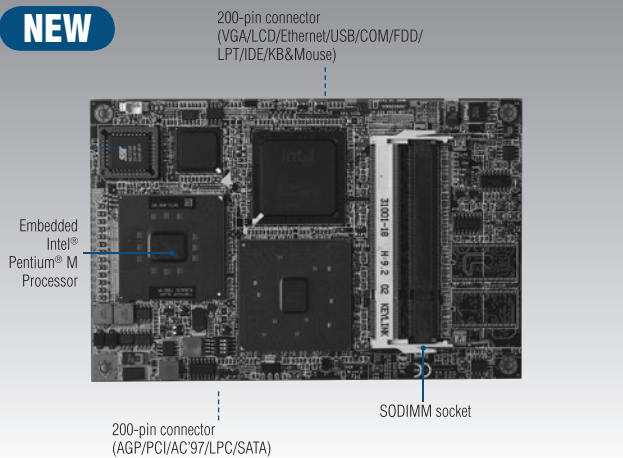


SOM-5580 Series

Intel® Pentium® M SOM-ETX^{plus}™
Module with CPU, VGA/LVDS, Audio
& LAN

NEW



Specifications

- **CPU** Embedded Intel® Pentium® M or Dothan Processor 1.6 GHz/1.1 GHz w/64KB primary cache memory
- **System Memory** 2 x 200 pin SODIMM sockets, support ECC Double Data Rate (DDR) 128 MB to 1 GB, accepts 128/256/512/1000 MB DR200/266/333 DRAM.
- **2nd Cache Memory** 1 MB on the Pentium M processor or 2 MB on the Dothan 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** Supports PCI & AGP interface

I/O

- **MIO** 2 x EIDE (UDMA 100), 1x LPT/FDD (shared), 1 x K/B, 1 x Mouse, 2 x RS232,
- **IrDA** 115 Kbps, IrDA 1.1 compliant.
- **USB** 6 USB 2.0 compliant ports
- **GPIO** 8-bit general Purpose Input/ Output

Ethernet

- **Chipset** Intel 82562EZ, 82540EM (Gigabit)
- **Ethernet Interface** IEEE 802.3u 100Base-T and IEEE 802.3z/ab 1000Base-T compatible built-in boot ROM in Flash BIOS

Display

- **Chipset** Intel 855GME, supports a single 1.5 V accelerated graphics port interface,
- **Memory Size** Optimized shared memory architecture, supports 1 MB/8 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

Features

- Embedded Intel® Pentium® M 1.1 G, 1.6 G processor
- Supports ECC DDR Memory
- With Vcore 2 phase design for more stable system
- Supports 1000Base-T Ethernet (SOM-5580FL-U0A1)
- Supports 6 ports host USB 2.0
- Supports up to dual channel LVDS panels

Mechanical and Environmental

- **Dimensions (L x W)** 95 x 144 (3.74 x 5.67)
- **Power Supply Voltage** +5 V power only.
- **Power Requirement** Max: +5 V @ 7 A, Typical: +5 V @ 5.6 A (Pentium M 1.6 G, 256 MB DDR 300)
Max: +5 V @ 4 A, Typical: +5 V @ 2.8 A (Pentium M 1.1 G, 256 MB DDR 300)
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing
- **Weight** 0.45 kg (weight of total package)

Packing List

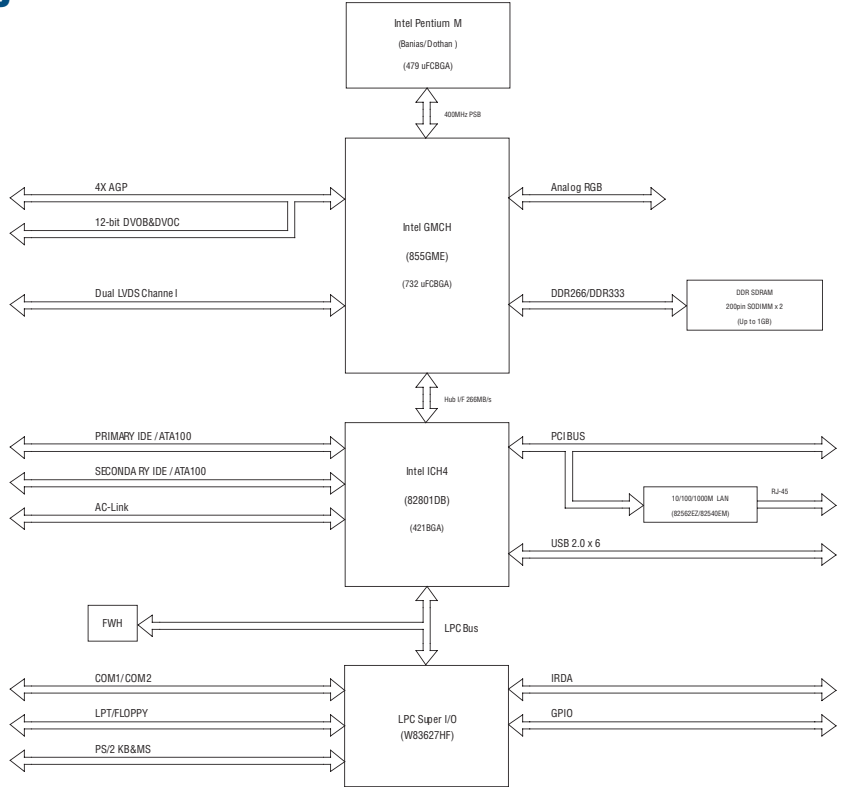
- SOM-5580 SOM-ETX^{plus} Module
- Utility CD
- Heat sink

Ordering information

Standard:

- **SOM-5580FL-S0A1** Pentium® M 1.1G w/ CPU/VGA/LVDS/Audio/LAN
- **SOM-5580FL-U0A1** Same as SOM-5580FL-S0A1 w/Pentium M 1.6 G & Giga LAN
- **SOM-DB5500-00A1** Development Board for SOM-ETX^{plus} Rev. A1
- **SOM-DB5500G-00A1** Development Board for SOM-ETX^{plus} (Giga LAN) Rev. A1

Board Diagram



Advantech may make changes to specifications and product descriptions at any time, without notice.