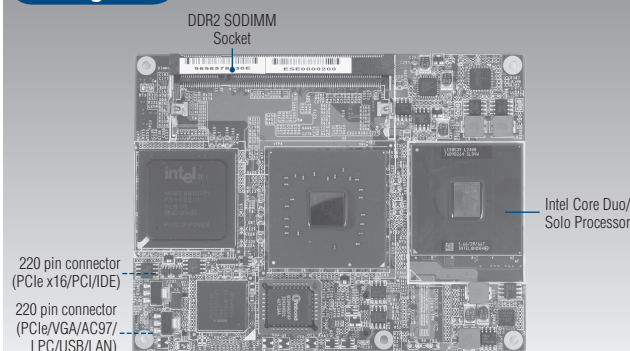


SOM-5782 Series

Intel® Core™ Duo/Solo/Celeron®
M Processor SOM-Express Module
with CPU, VGA/LVDS, Audio & LAN

Coming Soon



Intel
Communications
Alliance
Associate Member

COM
Express



Specifications

- **CPU** Embedded Intel® Core™ Duo/Solo/Celeron® M Processor w/64 KB primary cache memory
 - **System Memory** 1 x 200 pin SODIMM sockets, Double Data Rate 2 (DDR2) up to 2 GB, DDR2 400/533/667 MHz
 - **2nd Cache Memory** 2 MB on the Intel® Core™ Duo/Solo Processor
 - **System Chipset** Intel 945GM GMCH/ICH7-M Chipset 667 MHz FSB
 - **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 Express & PCI/LPC interface
- I/O**
- **PATA** 1 x EIDE (UDMA 100)
 - **SATA** 2 x SATA, Data transfer rates up to 1.5 Gb/s (150 MB/s)
 - **USB** 8 USB 2.0 compliant ports
 - **Audio** High definition audio interface (AC97/Azalia)
- Ethernet**
- **Chipset** Intel 82562GZ (10/100 M)/82573L (Optional for Gigabit Ethernet)
 - **Ethernet Interface** IEEE 802.3u 100Base-T compatible Built-in boot ROM in Flash BIOS

Features

- Embedded Intel® Core™ Duo/Solo/Celeron® M Processor
- Intel new graphics core based on GMA 950 & external PCI Express x 16 graphics interface.
- Supports the upcoming primary datapath PCI Express
- Supports 8 host USB 2.0 ports and 2 SATA ports
- Supports up to dual channel LVDS panels

Display

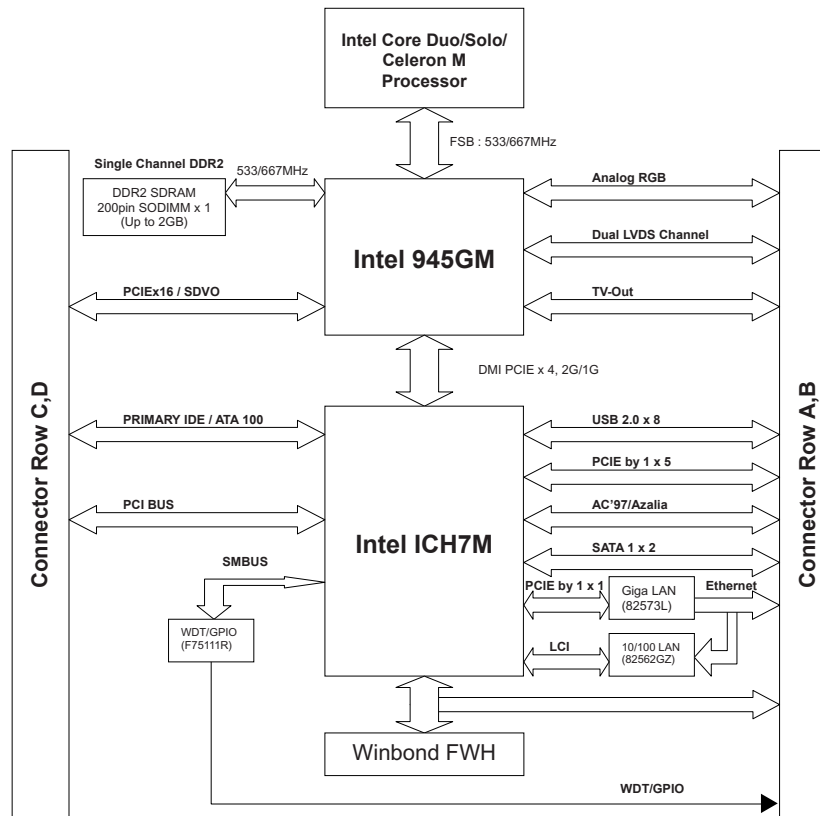
- **Chipset** Intel 945GM
- **Memory Size** DVMT 3.0 support, max memory allocation support based on total system memory 1 MB or 8 MB of pre-allocated memory supported
- **Resolution**
 - * CRT Display mode Supports max DAC frequency up to 400 MHz and 24-bit RAMDAC support, DDC2B compliant and up to 2048 x 1536 mode support
 - * LCD Display mode Supports 25 to 112 MHz single/dual channel LVDS interface. Maximum panel size supported up to UXGA TFT panel type

Mechanical and Environmental

- **Dimensions (L x W)** 125 x 95 mm (4.92" x 3.74")
- **Power Supply Voltage** +12 V power only
- **Power Requirement** TBD
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing

SOM-5782 Series

Board Diagram



Ordering information

Standard

- **SOM-5782FL-00A1E** Intel Socket 478 SOM-5782
- **SOM-5782FL-U0A1E** Intel Core Duo T2500 2.0 GHz SOM-5782
- **SOM-5782FL-S7A1E** Intel Core Duo L2400 1.66 GHz SOM-5782
- **SOM-5782FL-S6A1E** Intel Celeron M 420 1.6 GHz SOM-5782
- **SOM-5782FL-S0A1E** Intel ULV Celeron M 423 1.06 GHz SOM-5782