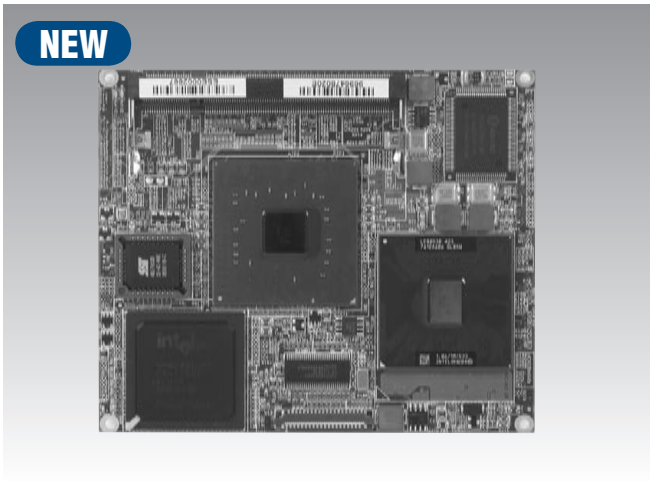
SOM-4780

Intel® Core™ Duo/Solo/Celeron® M Processer SOM-XTX Module with CPU, LVDS, Audio, LAN & PCIe



Features

- Embedded Intel® Core™ Duo/Solo/Celeron® M Processer
- Intel 945GM intergrated new generation graphic accelerator GMA 950
- Supports dual channel LVDS panel
- Supports PCIe x1 interface for high speed data transmission
- Supports up to six USB 2.0 / two COMs / two SATA / Audio / LAN

Specifications

- **CPU** Embedded Intel Core Duo/Solo/Celeron M Processor
- **System Memory** 1 x 200-pin SODIMM sockets, Double Data Rate 2 (DDR2) 128 MB to 1 GB, DDR2 533/667 MHz
- **2nd Cache Memory** 2 MB on Intel Core Duo/Solo Processor
- **System Chipset** Intel 945 GM GMCH/ICH7-M Chipset 533/667 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** Support PCI Express & PCI/LPC interface

I/O

- **PATA** 1 x EIDE (UMDA 100)
- **SATA** 2 x SATA, data transfer rates up to 1.5 Gb/s (150 MB/s)
- **USB** 6 x USB 2.0 compliant ports
- **Audio** High definition audio interface (AC97/Azalia)

Ethernet

- **Chipset** Intel 82562
- **Ethernet** IEEE 802.3u 10/100 Base-T compatible

Display

- **Chipset** Intel 945GM Integrated Graphic Accelerator
- **Memory Size** DVMT 3.0 support; maximum memory allocation support is based on total system memory pre-allocated between 1 MB and 8 MB

Resolution

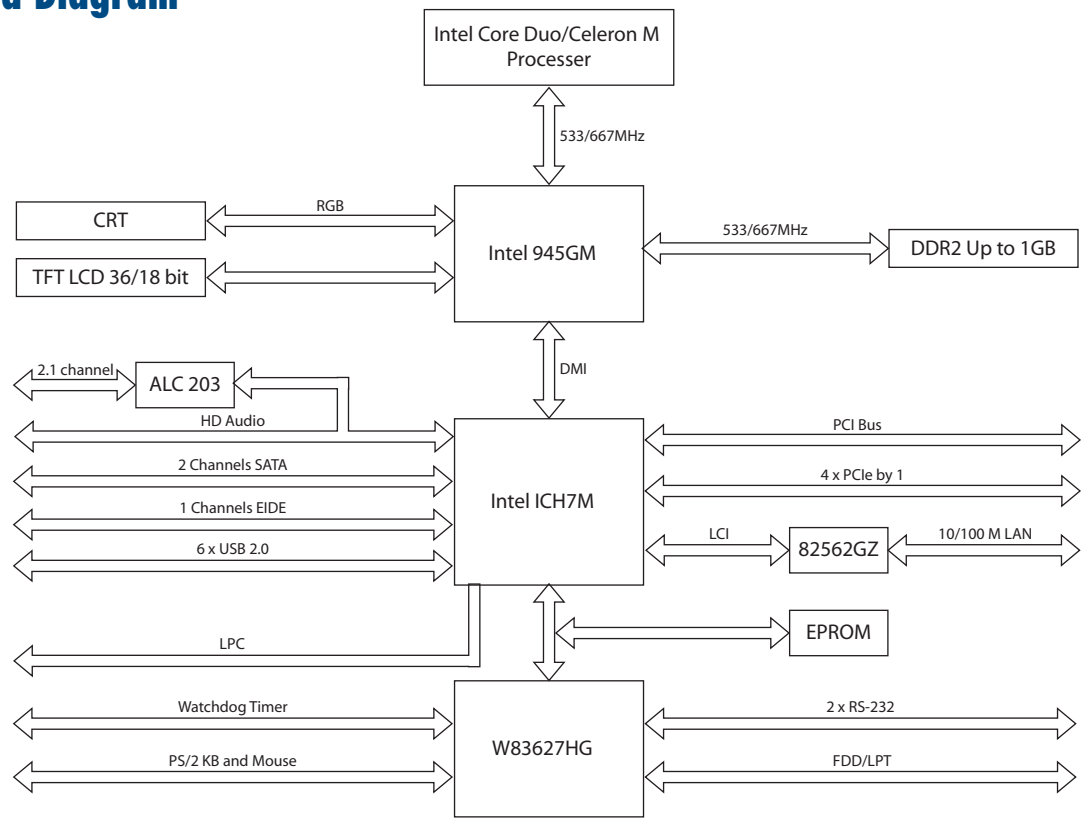
- **CRT Display Mode** Pixel resolution up to 1600 x 1200 at 85 Hz
- **LCD Display Mode** 18/36-bit LVDS panel support up to 1600 x 1200

Mechanical and Environmental

- **Dimensions (L x W)** 95 x 114 mm (3.74" x 4.5")
- **Power Supply Voltage** + 5 V power only
- **Power Requirement** 30 Watts @ 5 V
- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Operating Humidity** 0% ~ 90% relative humidity, non-condensing

All product specifications are subject to change without notice

Board Diagram



Ordering Information

Standard

P/N	CPU
SOM-4780FL-00A1E	Inel Socket 478
SOM-4780FL-S0A1E	Intel Celeron M ULV 423 @ 1.06 GHz
SOM-4780FL-S2A1E	Intel Core Duo U2500 @ 1.2 GHz
SOM-4780FL-S5A1E	Intel Core 2 Duo L7400 @ 1.5 GHz
SOM-4780FL-S7A1E	Intel Core Duo L2400 @ 1.66 GHz