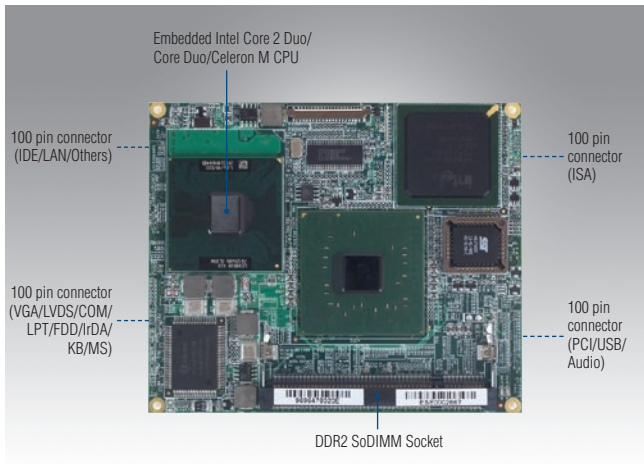


# SOM-4780

Intel® Core™ 2 Duo/Core™ Duo/Celeron® M Processor XTX Module with CPU, LVDS, Audio, LAN & PCIe



## Features

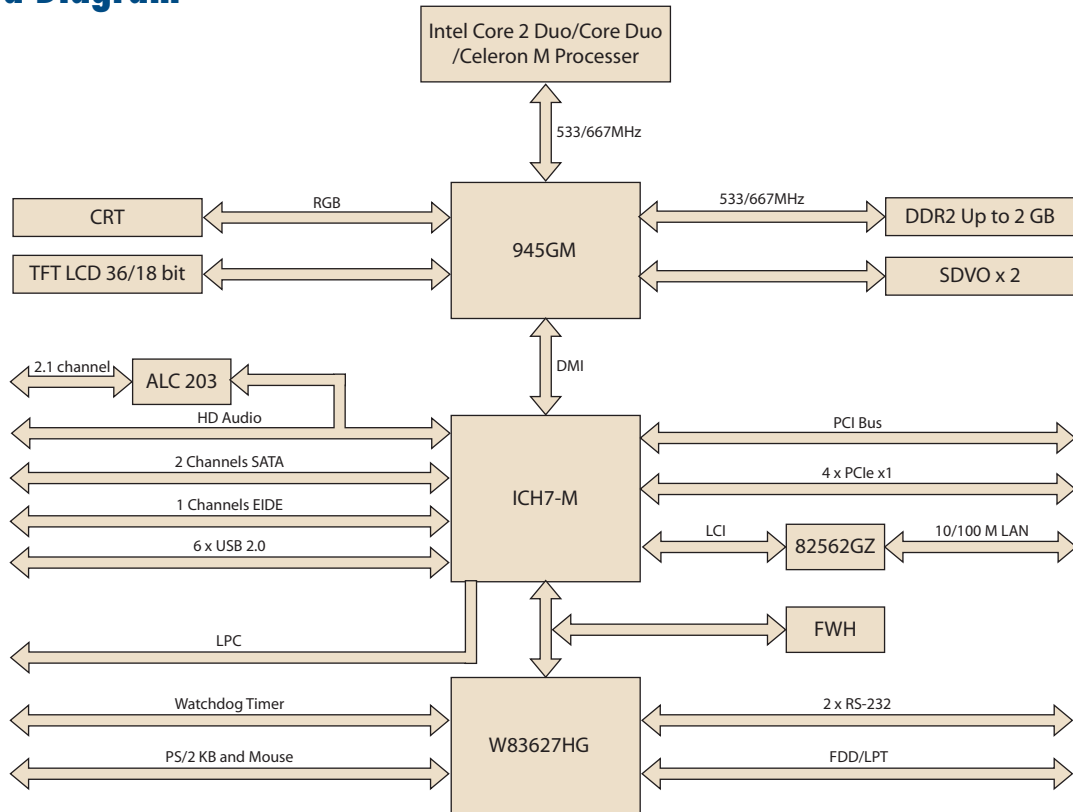
- Embedded Intel® Core™ 2 Duo/Core™ Duo/Celeron® M Processor
- Intel 945GM integrated new generation graphic accelerator GMA 950
- Supports dual channel LVDS panel
- Supports PCIe x1 interface for high speed data transmission
- Supports up to 6 USB 2.0/2 COMs/2 SATA/Audio/LAN



## Specifications

Processor System	CPU	Embedded Intel Core 2 Duo/Core Duo/Celeron M Processor
	System Memory	1 x 200-pin SODIMM sockets, DDR2 533/667 MHz up to 2 GB
	2nd Cache Memory	2 MB on Intel Core Duo/Processor
	System Chipset	Intel 945GM 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 300 MB/s
	USB	6 x USB 2.0 compliant ports
	Audio	High definition audio interface (AC97/Azalia)
Ethernet	Chipset	Intel 82562GZ
	Speed	10/100 Base-T
Display	Chipset	Intel 945GM Integrated Graphic Accelerator
	Memory Size	DVMT 3.0 support up to 224 MB
	Resolution	CRT Display Mode: Pixel resolution up to 1600 x 1200 at 85 Hz LCD Interface: Supports 36/18-bit LVDS TFT LCD up to 1280 x 1024
Power	Power Supply Voltage	+ 5 V power only
	Power Requirement	Max: +5 V @ 6.5 A (Intel Core 2 Duo T7400) +5 V @ 4.85 A (Intel Core 2 Duo L7400) +5 V @ 3.39 A (Intel Core Duo U2500) +5 V @ 2.96 A (Intel Celeron M 423)
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

### SOM Module

Part No.	CPU
SOM-4780FL-00A1E	Intel 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