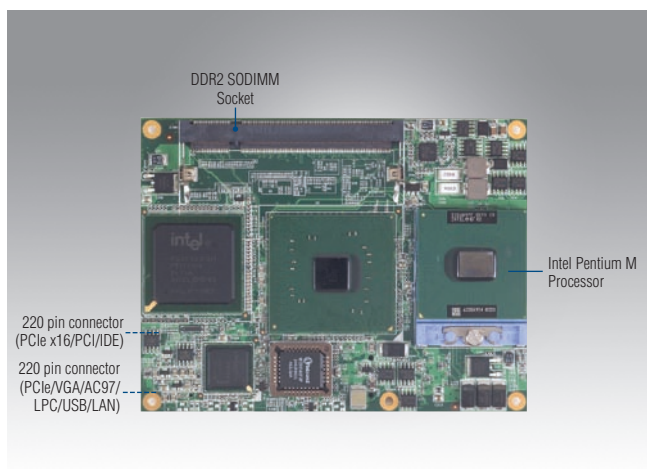


SOM-5780 Series

**Intel® Pentium® M COM-Express
Module with CPU, VGA/LVDS,
Audio & LAN**



Features

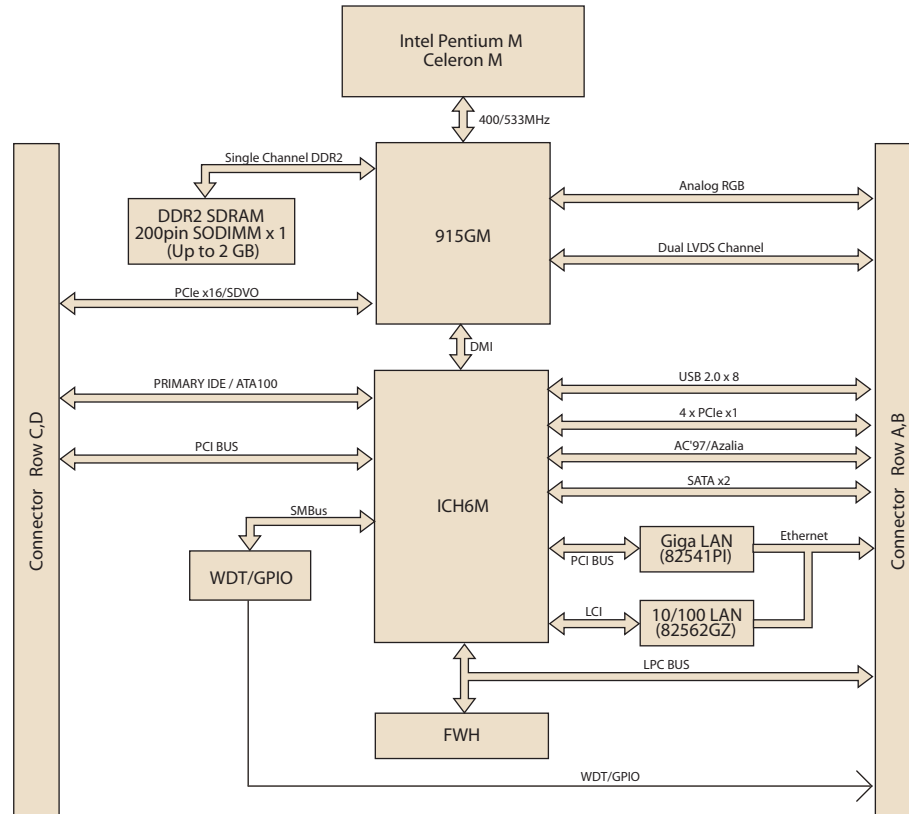
- Embedded Intel® Pentium® M/Celeron® M processor
- Intel's new graphics core based on GMA 900 & external PCI Express x16 graphics interface
- Supports PCI Express
- Supports 8 USB 2.0 ports and 2 SATA ports
- Supports dual channel LVDS panel



Specifications

Processor System	CPU	Embedded Intel Pentium M or Celeron M processor
	System Memory	1 x 200-pin SODIMM sockets, DDR2 400/533 MHz up to 2 GB
	2nd Cache Memory	2 MB on the Pentium M processor or 512 KB on the Celeron M processor
	System Chipset	Intel 915GM GMCH/ICH6M Chipset 533 MHz FSB
	BIOS	AWARD™ 4 Mbit Flash BIOS
	WatchDog Timer	256 levels timer interval, from 0 to 255 sec or min setup by software, jumperless selection, generates system reset
I/O	Expansion Interface	Supports PCI Express & PCI/LPC interface
	PATA	1 x EIDE (UDMA 100)
	SATA	2 x SATA, Data transfer rates up to 150 MB/s
	USB	8 x USB 2.0 compliant ports
	Audio	High definition audio interface (AC97/Azalia)
Ethernet	Chipset	Intel 82562GZ (10/100 M)/82541PI (Optional for Gigabit Ethernet)
	Speed	10/100/1000Base-T
Display	Chipset	Intel 915GM
	Memory Size	DVMT 3.0 support up to 128 MB
	Resolution	CRT Display Mode: Supports max DAC frequency up to 400 MHz and 24-bit RAMDAC, DDC2B compliant and up to 2048 x 1536 LCD Interface: Supports 36/18bit LVDS TFT LCD up to 1280 x 1024
Power	Power Supply Voltage	+12 V, +5 VSB
	Power Requirement	Typical: (1 GB DDR2 533) +12 V @ 1.81 A (Intel Pentium M 760) +12 V @ 1.6 A (Intel Pentium M 745) +12 V @ 1.33 A (Intel Pentium M LV 738) +12 V @ 1.25 A (Intel Celeron M 373) Max: (1 GB DDR2 533) +12 V @ 2.62 A (Intel Pentium M 760) +12 V @ 2.38 A (Intel Pentium M 745) +12 V @ 1.75 A (Intel Pentium M LV 738) +12 V @ 1.49 A (Intel Celeron M 373)
Environmental	Operating Temperature	0 ~ 60° C (32 ~ 140° F)
	Operating Humidity	0% ~ 90% relative humidity, non-condensing
Mechanical	Dimensions (L x W)	125 x 95 mm (4.92" x 3.74")

Board Diagram



Ordering Information

SOM Module

Part No.	CPU	LAN
SOM-5780FL-0AA1E	Intel Socket 478	10/100
SOM-5780FL-S0A1E	Intel Celeron M ULV 373 @ 1.0 GHz	10/100
SOM-5780FL-S4A1E	Intel Pentium M LV 738 @ 1.4 GHz	10/100
SOM-5780FL-S8A1E	Intel PentiumM 745 @ 1.8 GHz	10/100
SOM-5780FL-U0A1E	Intel Pentium M 760 @ 2.0 GHz	10/100
SOM-5780FG-0AA1E	Intel Socket 478	GbE
SOM-5780FG-S0A1E	Intel Celeron M ULV 373 @ 1.0 GHz	GbE
SOM-5780FG-S4A1E	Intel Pentium M LV 738 @ 1.4 GHz	GbE

Development Board

Part No.	Description
SOM-DB5700-00A2E	Development Board for SOM-Express Rev.A2
SOM-DB5700G-00A2E	Development Board for SOM-Express GLAN Rev.A2