

AIMB-253L

First Intel® Core 2 Duo Mini ITX
Motherboard with 3 RS-232,
Dual GbE, and PCIe x 16



Features

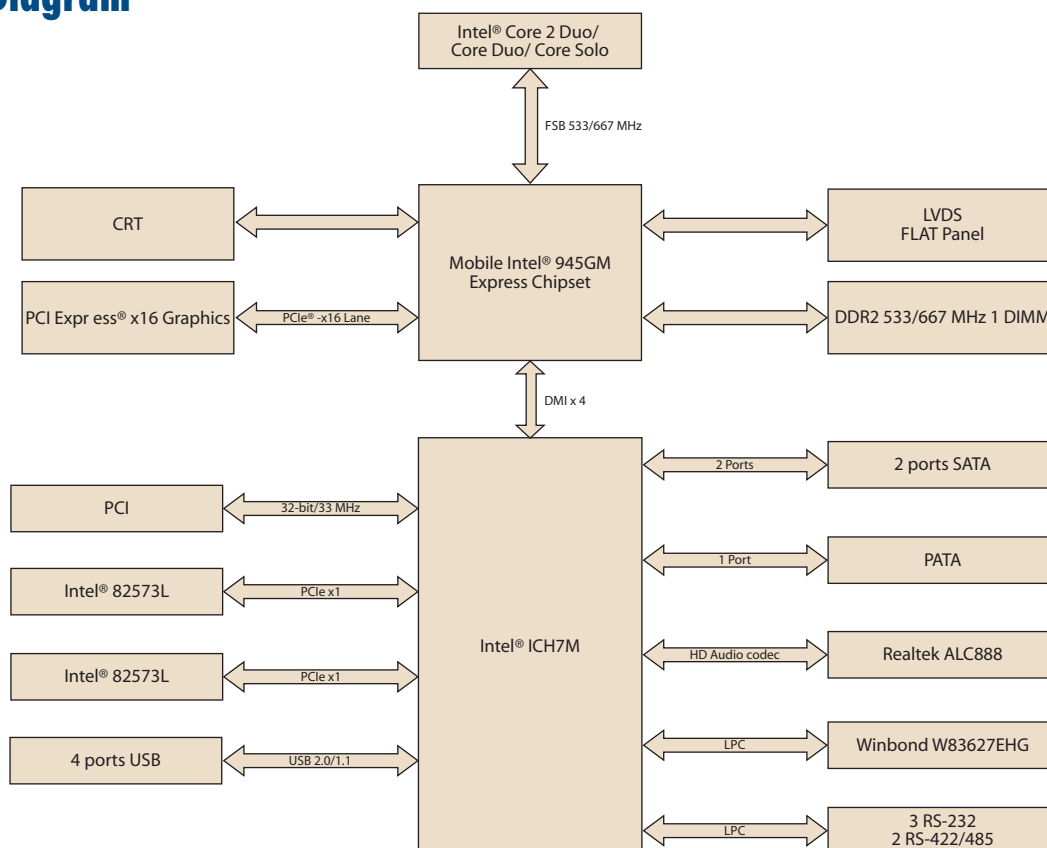
- Supports Intel μFC-PGA 478 Core 2 Duo/Core Duo/ Core Solo
- Intel 82945GM Express Chipset
- One DIMM up to DDR2 533/ 667 2 GB SDRAM
- Intel Graphics Media Accelerator 950
- Intel 7.1 CH HD Audio, S/PDIF
- 2 Intel 82573L LAN
- 1 PCIe x 16, 1 PCI
- 3 RS-232, 2 SATA, 4 USB 2.0



Specifications

Processor System	CPU	Intel® Core™ 2 Duo	Intel Core Duo	Intel Core Solo
	Max. Speed	2.16 GHz	2.0 GHz	1.86 GHz
	Front Side Bus	667 MHz	533/667 MHz	533 MHz
	L2 Cache	2 x 2 MB	2 x 1 MB	1 MB
	Chipset	Intel 82945GM + ICH7M		
	BIOS	Award 8 Mb FWH		
Expansion Slot	PCI	32-bit/ 33MHz, 1 slot		
	Mini-PCI	None		
	PCIe	PCIe x 16		
Memory	Technology	DDR2 533/667 SDRAM		
	Max. Capacity	2 GB		
	Socket	One 240-pin DIMM socket		
Graphic	Controller	Intel 82945GM GMCH integrated Graphics Media Accelerator 950		
	VRAM	Intel DVMT 3.0 supports 224 MB video memory		
	LVDS	Single channel 18-bit/Dual-channel 36-bit LVDS		
	TV-Out	None		
	DVI	None		
	Dual Display	CRT + LVDS		
Ethernet	Interface	10/100/1000Base-T		
	Controller 1	LAN 1 Intel 82573L LAN (via PCIe x 1)		
	Controller 2	LAN 2 Intel 82573L LAN (via PCIe x 1)		
	Connector	2 (RJ45)		
SATA	Max Data Transfer Rate	150 MB/s		
	Channel	2		
EIDE	Mode	EIDE (Ultra DMA 133)		
	Channel	1		
Rear I/O	VGA	1		
	Ethernet	2		
	USB	2		
	Audio	Mic in, Line in, Line out (Realtek ALC888 supports 7.1 CH HD Audio)		
	IEEE 1394	None		
	Parallel	1		
	Serial	1 (RS-232)		
	PS/2	2 (1 x K/B and 1 x Mouse)		
Internal Connector	LVDS & Inverter	1		
	TV-Out	None		
	DVI	None		
	USB	2 (USB 2.0 ports)		
	Serial	2 (RS-232); 2 (RS-422/485)		
	IDE	1 (44 Pin)		
	SATA	2		
	Compact Flash	None		
	IrDA	None		
	FDD	None		
	DIO	16-bit General Purpose I/O for DI and DO		
Watchdog Timer	Output	Interrupt, system reset		
	Interval	Programmable 1 ~ 255 sec		
Power Requirement	Typical	TBD		
		TBD		
		TBD		
Environment		Operating		
	Temperature	0 ~ 60° C (32 ~ 140° F)		
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")		

Block Diagram



Note: * The RS232 from COM2/3 signal and the RS422/485 from COM4/5 can be output concurrently one at a time.

Ordering Information

Part Number	Specification
AIMB-253L-00A1E	Intel Core 2 Duo / Core Duo/Core Solo Mini ITX Motherboard with VGA, 2-CH LVDS, 7.1 CH Audio, Dual Gb LAN, PCI, 3 RS-232 & 4 USB 2.0, PCIe x16

Bracket View



Packing List

Description	Quantity
AIMB-253L SBC	X 1
IDE HDD cable (44 pin)	X 1
SATA HDD cable	X 2
4 x serial port cable kit (2 RS-232, 2 RS-422/485)	X 1
CPU Cooler	X 1
I/O port bracket	X 1
Startup Manual	X 1
Driver CD	X 1

Accessory List

Part Number	Specification
1700003195	USB cable with dual ports, 15 cm