

AIMB-258

Intel® Core™2 Duo Mini-ITX with
VGA/DVI/LVDS, 6 COM, and Dual LAN



Features

- Supports Intel® Core™2 Duo mobile processor uFC-PGA 478 dual channel DDR3 800/1066 MHz SDRAM and max. 4 GB dual channel DDR3 800/1066 MHz SDRAM
- Intel GM45 and ICH9M supports FSB 667/800/1066 MHz
- Supports dual display for VGA, LVDS, and DVI
- PCIe x16 expansion for add-on cards
- Supports Embedded Software APIs and Utilities

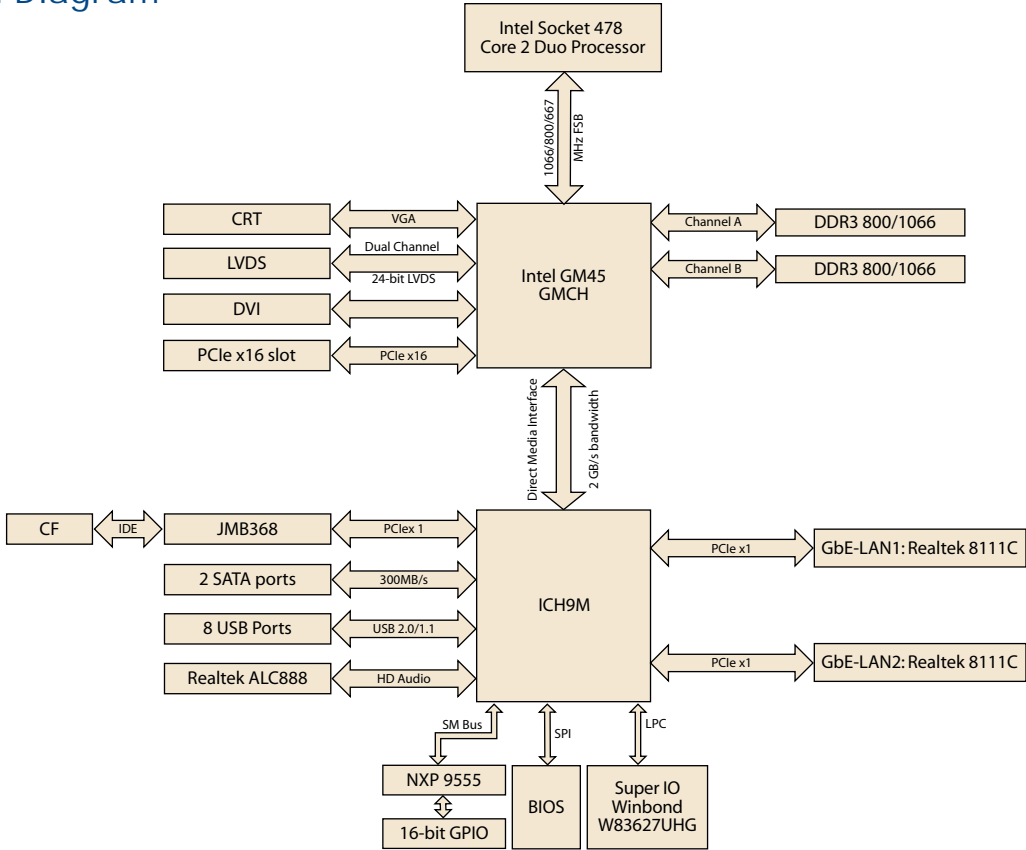
Software APIs:

Utilities:

Specifications

Processor System	CPU (45 nm uFC-PGA 478)	Intel Core 2 Duo	Intel Celeron M
	Max. Speed	T9400 2.53 GHz	575 2.0 GHz
	Front Side Bus	667/800/1066 MHz	667
	L2 Cache	6 MB	1 MB
	Chipset	GM45 + ICH9M	
	BIOS	Award 16 Mbit, SPI	
Expansion Slot	PCI	-	
	Mini-PCI	-	
	PCIe x16	4 GB/s per direction, 1 slot (if PCIe x16 is used, DVI is automatically disabled)	
Memory	Technology	DDR3 800/1066 MHz SDRAM	
	Max. Capacity	4 GB	
	Socket	2 x 204-pin SODIMM	
Graphics	Controller	Intel GM45 GMCH integrated Graphics Media Accelerator X4500	
	VRAM	Shared system memory up to 384 MB video memory	
	LVDS	Single channel 18/24-bit/Dual channel 36/48-bit LVDS	
	TV-Out	-	
	DVI	Yes (if DVI is used, PCIe x16 is automatically disabled)	
	Dual Display	CRT + DVI; CRT + LVDS; DVI + LVDS	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	GbE LAN1: Realtek RTL8111C; GbE LAN2: Realtek RTL8111C	
	Connector	RJ-45 x 2	
SATA	Max Data Transfer Rate	300 MB/s	
	Channel	2	
SSD	CompactFlash	Supports CompactFlash Type I/II	
Rear I/O	VGA	1	
	DVI	1	
	Ethernet	2	
	USB	4 (USB 2.0 compliant)	
	Audio	3 (Mic-in, Line-in, Line-out)	
	Serial	2 (1 of RS-232, 1 of RS-232/422/485)	
	PS/2	2 (1 x keyboard and 1 x mouse)	
	LVDS	1	
Internal Connector	USB	4 (USB 2.0 compliant)	
	Serial	4 (RS-232)	
	IDE	-	
	SATA	2	
	CompactFlash	1	
	Parallel	-	
	IrDA	-	
	FDD	-	
	DIO	16-bit General Purpose I/O for DI and DO	
	Watchdog Timer	Output	System reset
Interval		Programmable 1 ~ 255 sec/min	
Power Requirements	Power On	5 V 3.3 V 12 V 5 Vsb -12 V	
		0.99 A 2.67 A 2.07 A 0.17 A 0.08 A	
Environment	Operating	Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F) -20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")	

Board Diagram



Ordering Information

	Display	GbE	SATA	Serial	CF
AIMB-258G2-00A1E	VGA/DVI/ LVDS	Dual	2	6	1

Optional Accessories

Part Number	Description
1700003195	USB cable with four ports, 17.5 cm
1700002204	USB cable with four ports, 27 cm
1700008461	USB cable with four ports, 30.5 cm

Packing List

Part number	Description	Quantity
1700003194	SATA HDD cable	2
1700017461	SATA power cable	2
1750000348	CPU cooler	1
1960019193T100	I/O port bracket	1
2006025810	Startup manual	1
2066025800	Driver CD	1
1701400181	Cable kits for 4 serial ports	1

Embedded OS

OS	Part No.	Description
Win XPE	2070009518	Image WES2009 AIMB-258 V4.0 ENG
	2070009657	XPE WES2009 AIMB-258 V4.0 CHT
	2070009658	XPE WES2009 AIMB-258 V4.0 MUI24

Bracket View



AIMB-258G2-00A1E

