

# 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

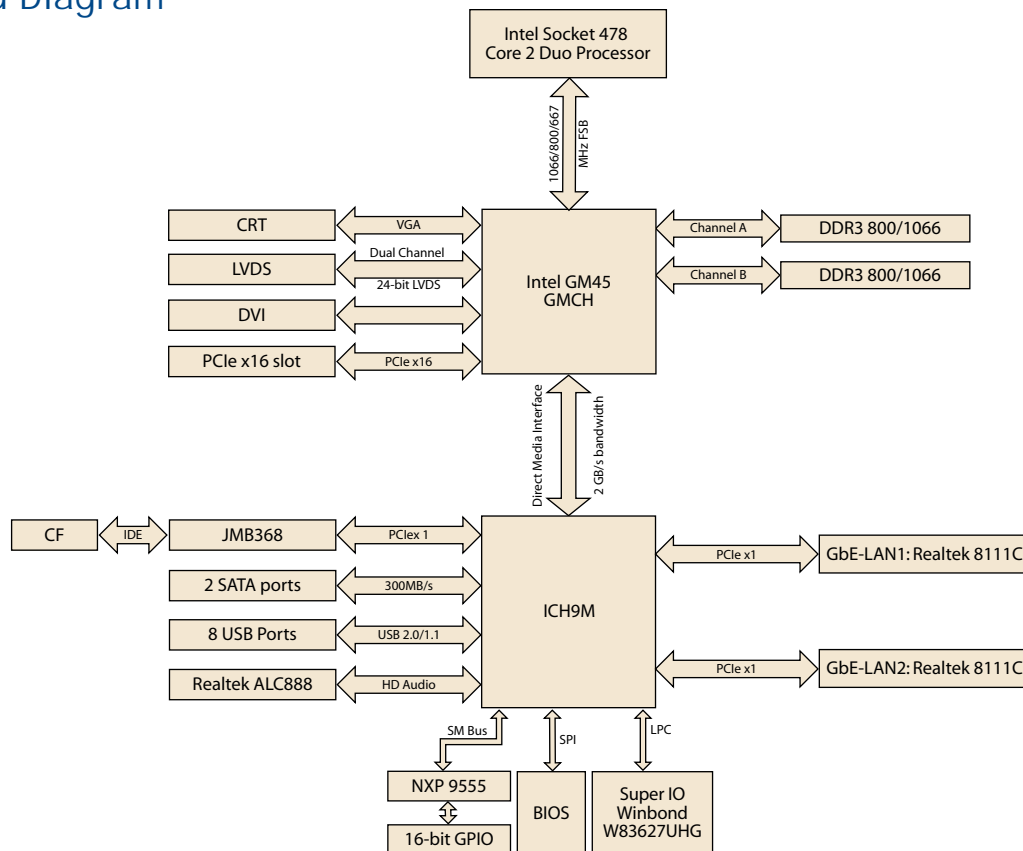
Software APIs:

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

