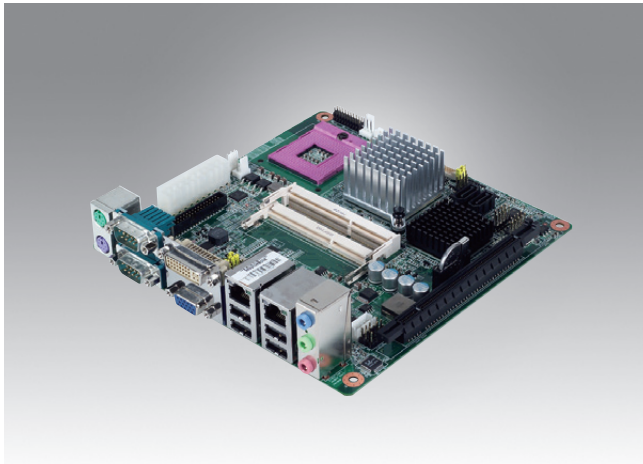


AIMB-258

Intel® Core™2 Duo Socket 479 Mini-ITX
with CRT/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 CRT, LVDS, and DVI
- PCIe x16 expansion for add-on cards
- Supports SUSIAccess and Embedded Software APIs

Software APIs:  SMBus  H/W Monitor  Watchdog  GPIO  Brightness

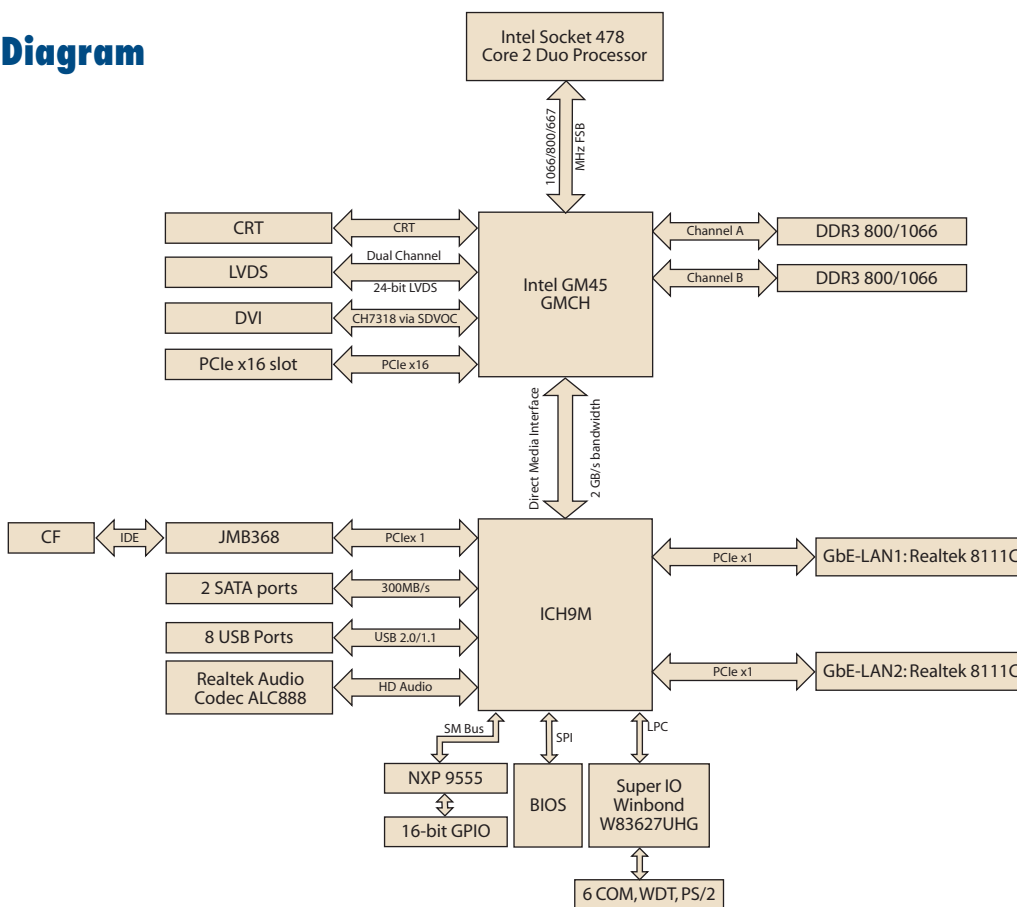
Utilities:  BIOS flash  Monitoring



Specifications

Processor System	CPU (45 nm uFC-PGA 478)	Intel Core 2 Duo	Intel Core 2 Duo	Intel Core 2 Duo	Intel Celeron M	
	Max. Speed	T9400 2.53 GHz	P8600 2.4GHz	P8400 2.26GHz	575 2.0 GHz	
	Front Side Bus	667/800/1066 MHz	1066 MHz	1066 MHz	667	
	L2 Cache	6 MB	3 MB	3 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 (Non-ECC)				
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, PClex 16 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	CRT	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	-				
	GPIO	16-bit				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	Intel Core™2 Duo Mobile Processor T9400 2.53GHz, 4 GB DDR3 SDRAM				
		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")				

Block Diagram



Ordering Information

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

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two 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/API

OS/API	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
Software API	205E000021	SUSI 3.0 SW API for AIMB-258 XP

I/O View



AIMB-258G2-00A1E