AIMB-B1000 Series

Ultra Thin Embedded Mini-ITX Box

Features

- Economic embedded system with 5 yrs longevity
- Ultra Thin design with 35mm in height
- Easy opening design, quick installation for additional peripherals
- Shock-resistant 2.5" drive bay
- Low power and low noise design
- Locking type DC power jack

CE FCC RoHS COMPLIANT 2002/95/EC

Specifications

		AIMB-B12010	AIMB-B12300/AIMB-B12305
Processor System	Thermal solution	Heat Pipe cooler included(support CPU up to 45W)	Heat Pipe cooler included
	CPU	3rd Gen. Intel Core i7/i5/i3 CPU, (uPGA 988B socket, up to 45W)	4rd Gen. Intel Core™ i5-4300U/Celeron 2980U (on board)
	Chipset	QM77	4th Generation Intel® Core™ ULT processors + Lynx Point-LP
	BIOS	AMI EFI 64 Mbit, SPI	AMI EFI 128 Mbit, SPI
Memory	Technology	DDR3 1333/1600 MHz SDRAM	DDR3L 1600 MHz SDRAM
	Max. Capacity	16 GB/up to 8 GB per SODIMM	16 GB/up to 8 GB per SODIMM
	Socket	2 x 204 PIN DDR3 SODIMM (Non-ECC)	2 x 204 PIN DDR3 SODIMM (Non-ECC)
Graphics	Chipset integrated	Integrated Intel HD Graphics	Integrated Intel HD Graphics
Storage	2.5" HDD bay	1 (support 2.5" HDD/SSD, max 9.5 mm height)	1 (support 2.5" HDD/SSD, max 9.5 mm height)
	Cfast	1 (Front panel access)	NA
	mSATA	NA	1 (share w/ full size Mini-PCIe slot)
Ethernet	Interface	10/100/1000 Mbps	10/100/1000 Mbps
	Controller	Intel 82579LM	LAN1: Realtek RTL8111E-VB-GR; LAN2: Realtek RTL8111E-VB-GR
	Connector	1 (RJ-45)	2 (RJ-45)
Audio	Chipset	Realtek ALC892, High Definition Audio(HD)	Realtek ALC892, High Definition Audio(HD)
Internal expansion Slot	Mini-PCIe	1	2 (Full-size, Half-size)
Front Panel	USB	2 (USB2.0)	2 (USB2.0)
	COM	1 (RS-232)	2 (RS-232)
	Antenna (optional)	NA	1 knock-out
Rear Panel	HDMI	3	1 (Compatible with DP)
	DP++	NA	1
	Lan	1 (RJ-45)	2 (RJ-45)
	USB	1 (USB3.0)	4 (USB3.0)
	Audio Jack	1 (Line-Out)	2 (Line-Out, Mic-In)
	Antenna (optional)	2 knock-out	2 knock-out
Miscellaneous	Power Input	1 (DC Jack)	1 (DC Jack)
	LED Indicators	2 (Power LED, HDD LED)	2 (Power LED, HDD LED)
	Control	1 (Power Button)	1 (Power Button)
Power Requirements	Voltage	19V DC power input	12V DC power input
	Power Consumption	17.4W (idle with Core i3); 43.8W (full load with Core i3)	13.8W (idle with Core i5); 31.92W (full load with Core i5)
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	0 ~ 40° C (32 ~ 104° F)
	Non-operating Temperature	-20 ~ 60° C (-4 ~ 140° F)	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	10~85% @ 40° C, non-condensing	10~85% @ 40°C, non-condensing
	Vibration (5 ~5 00Hz)	0.2G (with 2.5" HDD) / 1G (with SSD)	0.5G (with 2.5" HDD) / 1G (with SSD)
Dimensions (W x H x D)	Dimensions (W x H x D)	250 x 35 x 190 mm (9.84" x 1.38" x 7.48")	250 x 35 x 190 mm (9.84" x 1.38" x 7.48")
Weight	Weight	1.8 kg	1.8 kg

Front View

AIMB-B1201

AIMB-B1230

Rear View

AIMB-B1201

AIMB-B1230

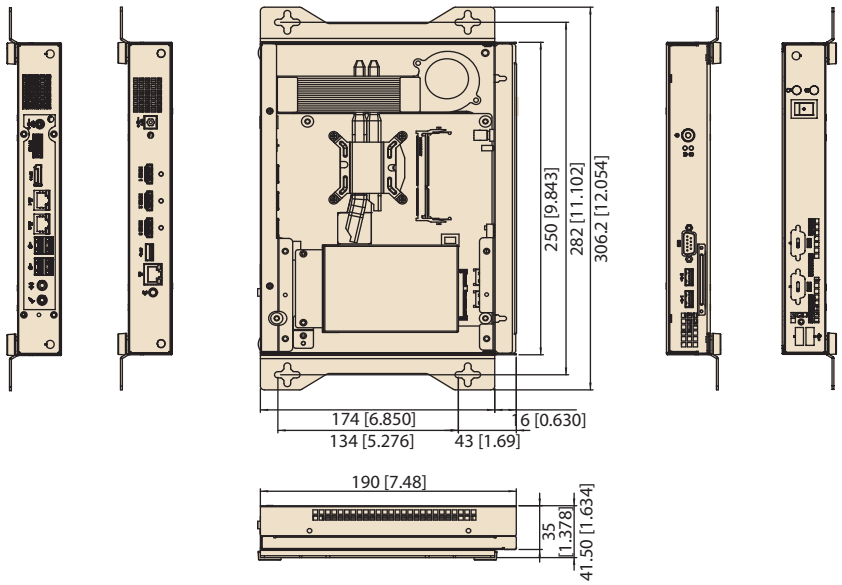
Inside View

AIMB-B1201

AIMB-B1230

Dimensions

Unit: mm [inch]



Ordering Information

Parts Number	Descripition	Front Panel			Rear Panel					Internal expansion Slot	2.5" HDD bay	Regulations
		USB 2.0/3.0	COM	Cfast slot	HDMI	DP++	USB 2.0/3.0	GbE LAN	Audio Jack	Mini-PCIe		
AIMB-B12010-00Y1E	CPU optional, barebone w/o power adapter	2/0	1	1	3	0	0/1	1	1 (Line-Out)	1 (1 x F/S) (F/S support mSATA)	1 (SATA III)	CE, FCC
AIMB-B12300-00Y1E	Celeron 2980U, barebone w/o power adapter	2/0	2	0	1 (DP)	1	0/4	2	2 (Line-Out, Mic-In)	2 (1 x F/S; 1 x H/S) (F/S support mSATA)	1(SATA III)	CE, FCC
AIMB-B12305-00Y1E	i5-4300U, barebone w/o power adapter	2/0	2	0	1 (DP)	1	0/4	2	2 (Line-Out, Mic-In)	2 (1 x F/S; 1 x H/S) (F/S support mSATA)	1 (SATA III)	CE, FCC

Optional Power Adaptor/ Power Cord

Parts Number	Compatibility	Watts	Input	Output	Safety	Power cord	Part Number	Description
1757003734	Adapter DC 19V for AIMB-B1201	65W	AC 100-240V$_{AC}$, 1.5A 50-60Hz	DC 19V, 3.42A	CE/FCC/CCC/UL/CB/ KC/AS/PSE/ GS/GOST R/C-Tick/ BSMI/IRAM	Power cord	1700001524	3-pin power cord (US) for for AIMB-B1201
							170203183C	3-pin power cord (EU) for AIMB-B1201
1757002944	Adapter DC 19V for AIMB-B1201	90W	AC 100-240V$_{AC}$, 1.5A 50-60Hz	DC 19V, 4.74A	CE/FCC/CCC/UL/CB/ AS/PSE/GS/ GOST R/C-Tick/BSMI		170203180A	3-pin power cord (UK) for AIMB-B1201
							1700008921	3-pin power cord with PSE (Japan) for AIMB-B1201
							1700019146	3-pin power cord (CCC) for AIMB-B1201
1757003995	Adapter DC 12V for AIMB-B1230	60W	AC 100-240V$_{AC}$, 1.5A 50-60Hz	DC 12V, 5.0A	CE/FCC/CCC/UL/CB/ KC/PSE/GS/ GOST R	Power cord	1702002600	3-pin power cord (US) for for AIMB-B1230
							1702002605	3-pin power cord (EU) for AIMB-B1230
1757003064	Adapter DC 12V for AIMB-B1230	84W	AC 100-240V$_{AC}$, 1.3A 50-60Hz	DC 12V, 7.0A	CE/FCC/CCC/UL/CB/ KC/PSE/GS/ GOST R/C-Tick/BSMI		1702031801	3-pin power cord (UK) for AIMB-B1230
							1700000237	3-pin power cord with PSE (Japan) for AIMB-B1230
							1700000596	3-pin power cord (CCC) for AIMB-B1230

Packing List

Description	Quantity
MB startup manual	1
MB utility CD	1
Mounting Bracket (PN: 1960014487T001)	1
Lock harness for power Jack (PN: 1990021263S000+1990021264S000)	1