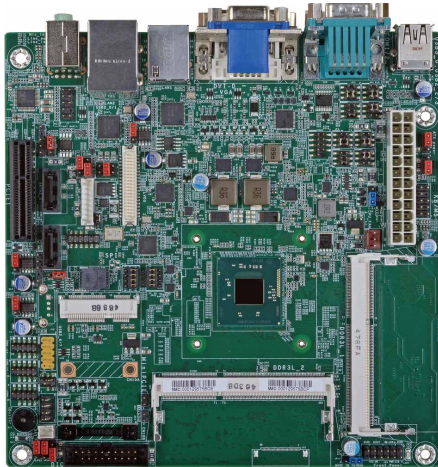


AMB-BT45B1/W (Wide Temperature)

Intel Bay Trail SoC, 1 x VGA, 1 x DVI, 1 x LVDS, 2 x GbE, 6 x COM, 1 x USB3.0, 6 x USB2.0, 1 x PCIe x4, 1 x Mini PCI-e



Features

- Intel Bay Trail SoC, low power consumption.
- Two DIMM slots support DDR3 1333 SDRAM up to 8GB
- 1 x USB3.0, 6 x USB2.0, 1 x PCIe x4, 1 x Mini PCI-e
- Wide Temperature(AMB-BT45B1W : -40~85°C)



Specification

Specification

CPU	<ol style="list-style-type: none"> 1. Intel Atom E3815, Single Core, 0.5M Cache, 1.46GHz, 5W (AMB-BT15B1) 2. Intel Celeron J1900, Quad Core, 2M Cache, 2GHz (2.41GHz), 10W(AMB-BT19B1) 3. Intel Atom E3845, Quad Core, 2M Cache, 1.91GHz, 10W (AMB-BT45B1/ AMB-BT45B1W)
Chipset	Intel Bay Trail SoC
Memory	<ul style="list-style-type: none"> • 2 x DDR3L 1333MHz SODIMM sockets (AMB-BT19B1/AMB-BT45B1/AMB-BT45B1W) up to 8GB system memory • 1 x DDR3L 1066MHz SODIMM socket (AMB-BT15B1) up to 4GB system memory

Video

Graphic Controller	Intel® HD Graphics
Video Memory	Shared Memory
Video Interface	<ul style="list-style-type: none"> • 1 x VGA (DB15) resolution up to 2560x1600 @ 60Hz • 1 x DVI-D resolution up to 1920x1080 @ 60Hz • 1 x LVDS (24 Bit Dual channel LVDS, resolution up to 1920x1200 @ 60Hz)

Storage

SATA	2 x SATA II ports
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I/O

Ethernet	2 x GbE, Intel I210AT PCIe Ethernet controllers
Expansion Slot	<ul style="list-style-type: none"> • 1 x PCI-E x 4 slot (x1 Signal) • 1 x Mini PCIe slot
Serial Port	<ul style="list-style-type: none"> • 1 x RS232/485 (DB9) • 1 x RS232 (DB9) • 1 x RS232/485 (Pin Header) • 3 x RS232 (Pin Header)
USB	<ul style="list-style-type: none"> 3 x USB 2.0 port on rear I/O 1 x USB 3.0 Port on rear I/O 3 x USB 2.0 pin header
GPIO	8-bit Digital I/O
Audio	Realtek ALC888 5.1-channel High Definition Audio 1xLine in, 1x Line out

Hardware Feature

Hardware Monitoring	<ol style="list-style-type: none"> 1.CPU voltage 2.CPU and System Temperature 3.System fan speed
WatchDog Timer	Software programmable 1~255 Sec.

Power Requirement

Power Input	1 x ATX 24-Pin ATX power connector
Power State	S0, S1, S3, S4
Power Consumption	TBD

Software

OS Support	Window 7 (32bit/64bit), windows 8.1 (32bit/64 bit)
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Mechanical & Environment

Dimension	170mm x 170mm (6.69" x 6.69")
Weight	TBD
Operating Temp.	<ul style="list-style-type: none"> • -20~70°C - (AMB-BT45B1) • -40~85°C - (AMB-BT45B1W) • 0~60°C - (AMB-BT19B1) • 0~60°C - (AMB-BT15B1)
Storage Temp.	-40~85°C
Relative Humidity	5 to 90% , non-condensing
Safety	CE, FCC class A

Packing List

- 1 x AMB-BT45B1 main board
- 1 x Driver CD
- 1 x Quick Guide
- 1 x IO Shield
- 1 x SATA Cable
- 1 x Heatsink

Ordering Information

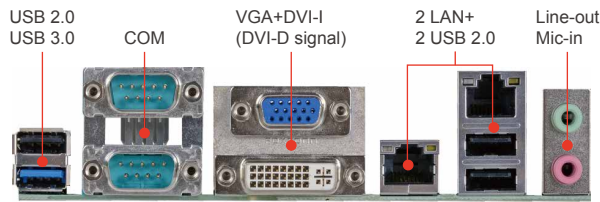
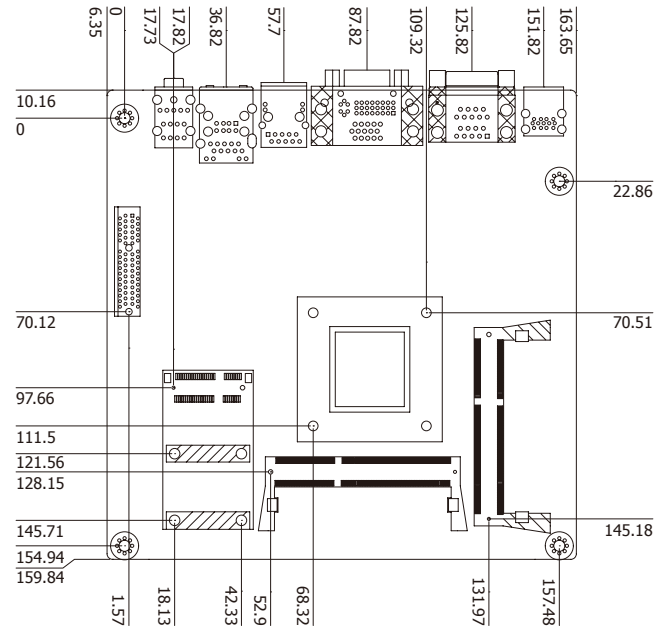
AMB-BT45B1	Intel Atom E3845, Quad Core, 2M cache, 1.91GHz, 10W (2 x LAN, 2 x COM)
AMB-BT45B1W	Intel Atom E3845, Quad Core, 2M cache, 1.91GHz, 10W (2 x LAN, 6 x COM)
AMB-BT19B1	Intel Celeron J1900, Quad Core, 2M cache, 2GHz (2.41GHz), 10W (2 x LAN, 6 x COM)
AMB-BT15B1	Intel Atom Atom E3815, Single Core, 0.5M cache, 1.46GHz, 5W (2 x LAN, 6 x COM)

Optional Cable

- USB port cable (2.54mm)
- USB port cable (2.0mm)
- COM port cable
- Serial ATA data cable

Specifications are subject to change without notice.

Dimension



I/O Connectors

