

ASB-M8171

Mini-ITX, Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processor, 100 Series Chipset, 2 x DDR4 SO-DIMM, LVDS/VGA/DVI/LVDS

In-Position
Technologies
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Features

- Socket H4, Intel Core i3/i5/i7 processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 1866/2133MHz
- Intel 100 series chipset
- Three independent display
- Wide range 9~36V DC input
- ADOtec designed 80 pin socket PCIe expansion interface
- TPM(Trusted Platform Module) support for option

Packing List

- 1 x ASB-M8171 Industrail Motherboard
- 1 x Driver CD
- 1 x CR2477 Battery
- 1 x SATA 7+15Pin to SATA 7pin/SATA Power 2pin Cable (L=18cm)

Specifications

System

Form Factor	Mini-ITX
Processor	Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processor
System Chipset	Intel 100 Series Chipset (H170 Default)
System Memory	Support 2 x 260-pin SO-DIMM up to 32GB DDR4 1866/2133MHz
BIOS	AMI/UEFI BIOS

Display

Controller	Intel HD Graphics Series
VGA Interface	1 x VGA, 1 x CRT 2 x 6 pin header
TTL/LVDS Interface	1 x 18/24-bits dual channel LVDS
DVI Interface	1 x DVI-I via internal 2x7 pin header
HDMI Interface	1 x HDMI
Resolution	Up to 4096 x 2304 for HDMI Up to 2560 x 1600 for DVI-I Up to 1920 x 1200 for VGA Up to 1920 x 1200 for 18/24-bits dual channel LVDS

Mechanical & Environment

Board Size (L x M)	170mm x 170mm
Gross Weight	TBD
Operating Temperature	-20°C~70°C (-4°F~158°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)
Humidity	10%~90%, non-condensing, operating
Certificate	Meet RoHS 2.0/CE/FCC Class A

Expansion

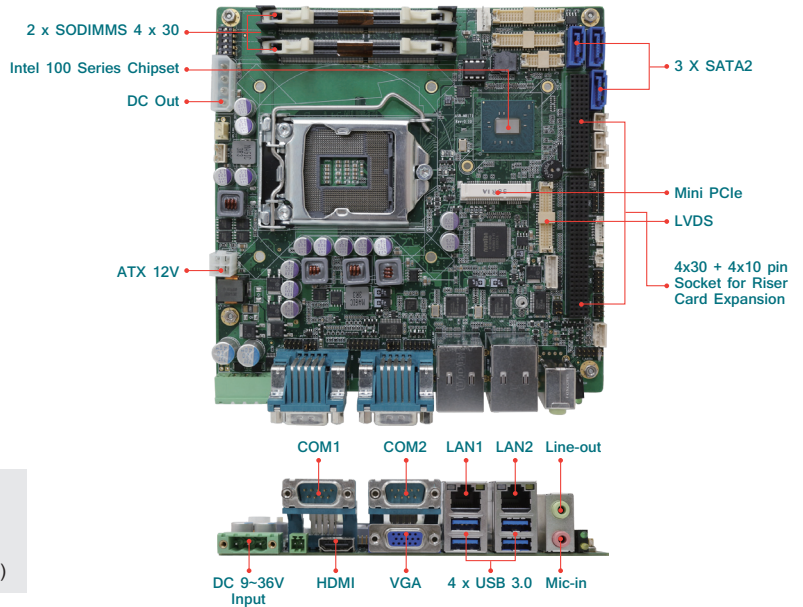
Expansion	4 x 20 + 4 x 30 Pin Socket For Aplex Riser Card Expansion 1 x mini-PCI-express slot (shared with mSATA)
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Power Management

Power Input	Wide range DC 9~36V input / DC 12V optional
Power Connector	1 x 3 Pin power input connector / 2 x 2 pin connector

Ordering Information

ASB-M8171HT	Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processor, H170, SO-DIMM DDR4, VGA/HDMI/LVDS, 4 x 20 + 4 x 30 Pin Expansion Socket (On Top-side)
ASB-M8171HB	Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processor, H170, SO-DIMM DDR4, VGA/HDMI/LVDS, 4 x 20 + 4 x 30 Pin Expansion Socket (On Bottom-side)



I/O

Super I/O	Nuvoton NCT6106D
Ethernet	2 x PCIe Gbe LAN for external by Intel I210AT
USB	4 x USB 3.0 external stack ports 1 x USB 2.0 internal for miniPCIe 3 x USB 2.0 via MIO1 4 x USB 2.0 via MIO2
Serial	1 x RS232/422/485 port, DB9 connector for external, pin 9 with 5V/12V/Ring select (COM1) 1 x RS232 port, DB9 connector for external, pin 9 with 5V/12V/Ring select (COM2) 1 x RS422/485 header for MIO1 (COM3) 1 x RS232 header for MIO1 (COM4) 1 x RS232 header for internal (COM5) 1 x RS232 header for internal, pin 9 w/5V/12V select (COM6)
GPIO	8-bit digital I/O by header (4 x DI, 4 x DO)
Storage	3 x SATAIII Connector 1 x mSATA (Shared with mPCIe)
Audio	Support Audio via Realtek ALC269Q-VB HD audio codec 2 x Stack Audio Jack, line-out/Mic-in 2 x 2W speaker out via 1x4 pin header Line-in, Line-out, MIC via 2x6-pin header
Keyboard /Mouse	PS2 K/B and Mouse via MIO2
Switches	1 x Reset Switch via MIO2
SIM Card Holder	1 x 6 Pin Wafer
Battery	1 x 2 Pin header support CR2477 (1000mAH)

Dimension

