

# ASB-M8171

Mini-ITX

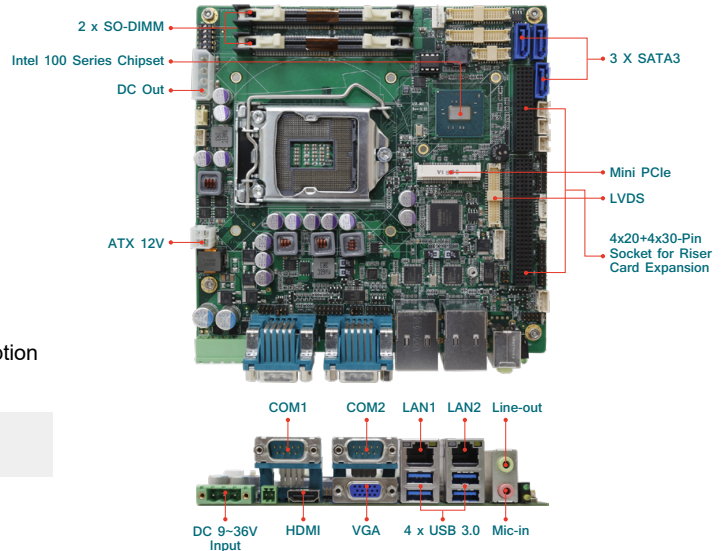
Mini-ITX, Socket H4, 6th/7th Gen. Intel Core i3/i5/i7 Processors, 100 Series Chipset, 2 x DDR4 SO-DIMM, LVDS/VGA/DVI/LVDS

## 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 DC 9~36V Input
- ADOtec Designed 120+80-Pin Socket PCIe Expansion Interface
- TPM 2.0 (Trusted Platform Module) Support for Option

## Packing List

- 1 x ASB-M8171 Industrial Motherboard
- 1 x CR2477 Battery



## Specifications

### System

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

### Display

<b>Controller</b>	Intel HD Graphics Series
<b>VGA Interface</b>	1 x VGA, 1 x CRT 2 x 6-Pin header
<b>TTL/LVDS Interface</b>	1 x 18/24-bit dual channel LVDS
<b>DVI Interface</b>	1 x DVI-I via internal 2 x 7-Pin header
<b>HDMI Interface</b>	1 x HDMI
<b>Resolution</b>	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-bit dual channel LVDS

### Mechanical & Environment

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

### Expansion

<b>Expansion</b>	4 x 20 + 4 x 30-Pin Socket For Apex Riser Card Expansion 1 x mini PCIe slot (shared with mSATA)
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### Power Management

<b>Power Input</b>	Wide range DC 9~36V input / DC 12V input (option)
<b>Power Connector</b>	1 x 3-Pin power input connector / 2 x 2-Pin connector

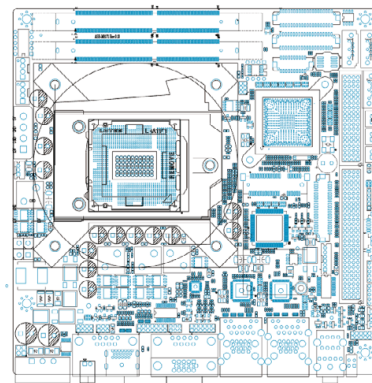
### Ordering Information

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

### I/O

<b>Super I/O</b>	Nuvoton NCT6106D
<b>Ethernet</b>	2 x PCIe GbE LAN for external by Intel I210AT 4 x USB 3.0 external stack ports 1 x USB 2.0 internal for mini PCIe 3 x USB 2.0 via MIO1 4 x USB 2.0 via MIO2
<b>Serial</b>	1 x RS-232/422/485 port, DB-9 connector for external, pin 9 with 5V/12V/Ring select (COM1) 1 x RS-232 port, DB-9 connector for external, pin 9 with 5V/12V/Ring select (COM2) 1 x RS-422/485 header for MIO1 (COM3) 1 x RS-232 header for MIO1 (COM4) 1 x RS-232 header for internal (COM5) 1 x RS-232 header for internal, pin 9 w/5V/12V select (COM6)
<b>GPIO</b>	8-bit digital I/O by header (4 x DI, 4 x DO)
<b>Storage</b>	3 x SATA3 Connector 1 x mSATA (Shared with mini PCIe)
<b>Audio</b>	Support Audio via Realtek ALC269Q-VB HD audio codec 2 x Stack Audio Jack, Line-out/ Mic-in 2 x 2W speaker out via 1 x 4-Pin header Line-in, Line-out, MIC via 2 x 6-Pin header
<b>Keyboard /Mouse</b>	PS2 K/B and Mouse via MIO2 1 x PS/2 keyboard 1 x PS/2 mouse
<b>Switches</b>	1 x Reset Switch via MIO2
<b>SIM Card Holder</b>	1 x 6-Pin Wafer
<b>Battery</b>	1 x 2-Pin header support CR2477 (1000mAh)

### Dimension



Industrial Motherboard

Embedded Single Board

Core Module and Baseboard

Accessory

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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