

ASB-M8172

Non-standard

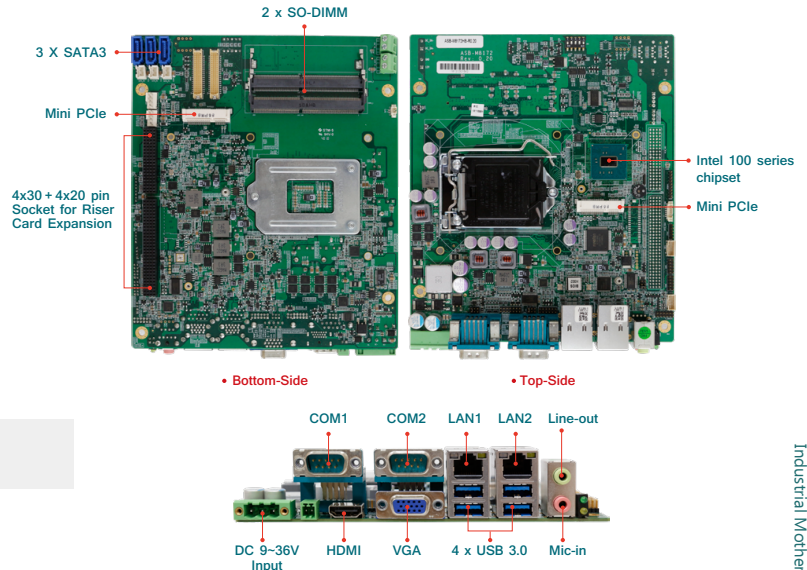
Non-standard, Socket H4, 6th/7th Gen. Intel Core i3/i5/i7 Processors, 100 Series Chipset, 2 x DDR4 SO-DIMM, LVDS/VGA/DVI, TPM 2.0

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

Packing List

- 1 x ASB-M8172 Industrial Motherboard
- 1 x CR2477 Battery



Specifications

System

| | |
|-----------------------|--|
| Form Factor | Non-standard |
| Processor | Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processors |
| 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

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|-----------------------|---|
| Controller | Intel HD Graphics Series |
| VGA Interface | 1 x VGA, 1 x CRT 2 x 6-Pin header |
| DVI Interface | 1 x DVI-I via internal 2 x 7-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-bit dual channel LVDS |

Mechanical & Environment

| | |
|------------------------------|------------------------------------|
| Board Size (L x M) | 200 mm x 170 mm |
| 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

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|------------------|---|
| Expansion | 4 x 20 + 4 x 30-Pin Socket For Apex Riser Card Expansion 1 x mini PCIe slot (Full-size, shared with mSATA) 1 x mini PCIe slot (Full-size) |
|------------------|---|

Power Management

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|------------------------|---------------------------------|
| Power Input | Wide range DC 9~36V input |
| Power Connector | 1 x 3-Pin power input connector |

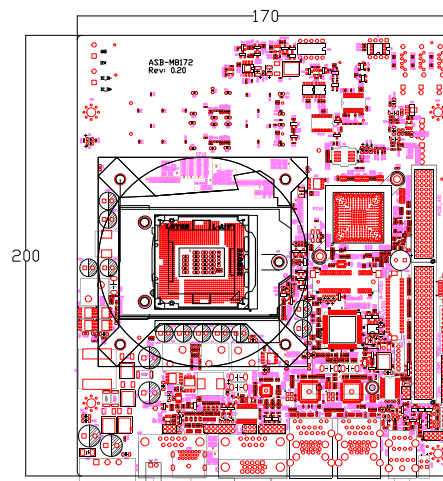
Ordering Information

| | |
|--------------------|---|
| ASB-M8172HB | Socket H4, 6th/7th Gen Intel Core i3/i5/i7 Processor, H170, SO-DIMM DDR4, VGA/HDMI, 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 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 |
| Serial | 1 x RS-232/422/485 port, DB-9 connector for external, pin 9 with 5V/12V/Ring select (COM1) 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) |
| GPIO | 8-bit digital I/O by header (4 x DI, 4 x DO) |
| Storage | 3 x SATA3 Connector 1 x mSATA (Shared with mini PCIe) |
| 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 1 x 4-Pin header Line-in, Line-out, MIC via 2 x 6-Pin header |
| Keyboard /Mouse | PS2 K/B and Mouse via MIO2 1 x PS/2 keyboard 1 x PS/2 mouse |
| 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



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