

ASB-M8172

Non-standard

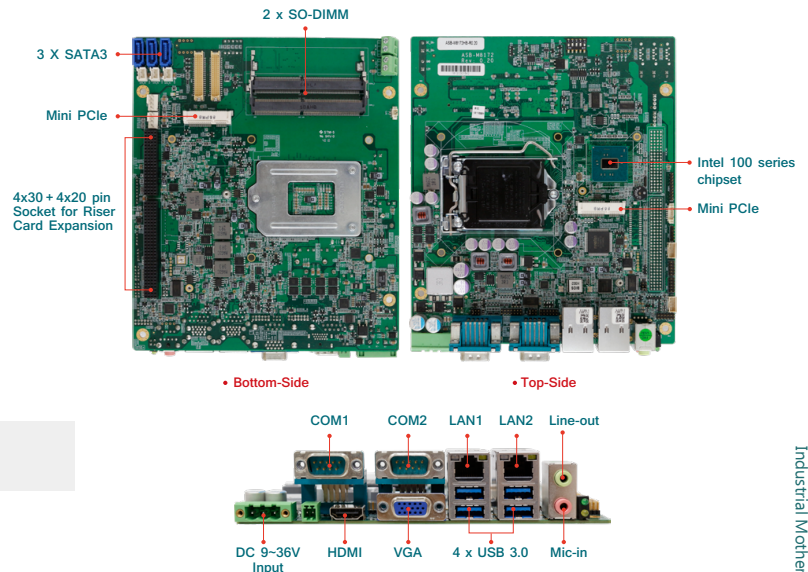
Non-standard, Socket H4, 6th/7th Gen. Intel Core i3/i5/i7 Processors, 100 Series Chipset, 2 x DDR4 SO-DIMM, LVDS/VGA/DVI, TPM 2.0

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

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

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)
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Power Management

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

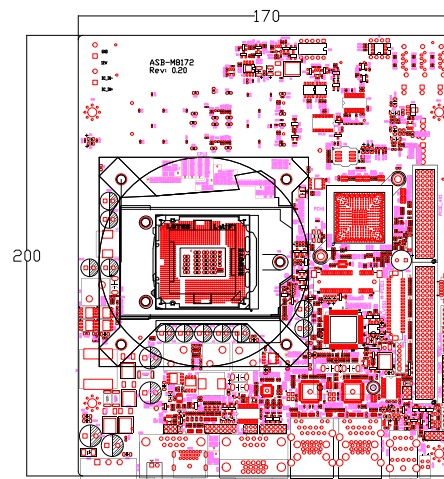
Ordering Information

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)
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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



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.

US

sales@assured-systems.com

Sales: +1 347 719 4508
Support: +1 347 719 4508

1309 Coffeen Ave
Ste 1200
Sheridan
WY 82801
USA

EMEA

sales@assured-systems.com

Sales: +44 (0)1785 879 050
Support: +44 (0)1785 879 050

Unit A5 Douglas Park
Stone Business Park
Stone
ST15 0YJ
United Kingdom

VAT Number: 120 9546 28
Business Registration Number: 07699660