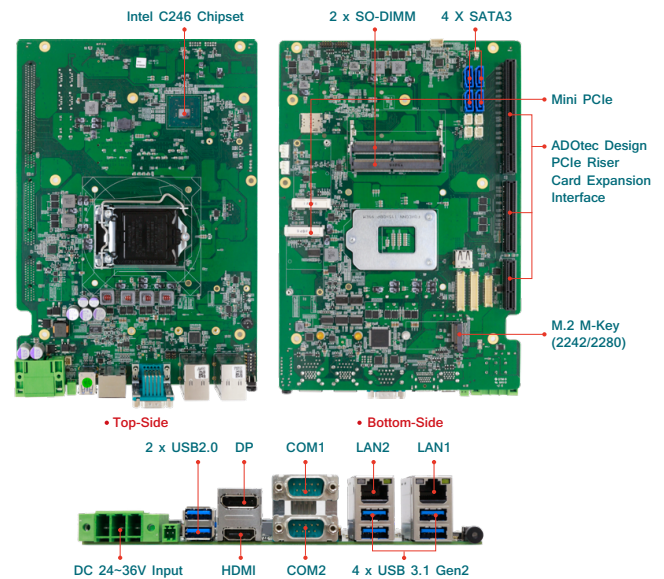# ASB-M8371

Non-standard

Socket H4, 8th/9th Gen. Intel Core/Xeon Processors, Intel C246 Chipset, 2 x DDR4 SO-DIMM, DP/HDMI, TPM 2.0

Features

- Socket H4, Support Intel 8th/9th Gen Core/Xeon Processors
- 2 x 260-Pin SO-DIMM, up to 64GB DDR4 2666MHz
- Intel C246 Chipset
- Three Independent Display
- Wide Range DC 24~36V Input
- ADOtec Designed PCIe Riser Expansion Socket
- TPM 2.0 (Trusted Platform Module) Support

Packing List

- 1 x ASB-M8371 Industrial Motherboard
- 1 x CR2477 Battery

Intel C246 Chipset   2 x SO-DIMM   4 X SATA3

Mini PCIe

ADOtec Design PCIe Riser Card Expansion Interface

M.2 M-Key (2242/2280)

• Top-Side   • Bottom-Side

2 x USB2.0   DP   COM1   LAN2   LAN1

DC 24~36V Input   HDMI   COM2   4 x USB 3.1 Gen2

Specifications

System

Form Factor	Non-standard
Processor	Socket H4, 8th/9th Gen Intel Core/Xeon Processors
System Chipset	Intel C246 Chipset
System Memory	2 x 260-Pin SO-DIMM, 2DPC, up to 64GB DDR4 2666MHz
BIOS	AMI/UEFI BIOS

Display

Controller	Intel UHD Graphics Series
DP Interface	1 x DP
HDMI Interface	1 x HDMI
Resolution	Up to 4096 x 2160@30Hz for HDMI Up to 4096 x 2304@60Hz for DP

Mechanical & Environment

Board Size (L x M)	280 mm x 186 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	1 x PCIe x16, 2 x PCIe x4 or 2 x PCIe x8, 2 x PCIe x4 via TB-594 series (1 x PCIe x16 or 2 x PCIe x8 Select via BIOS) 2 x mini PCIe slot (Full-size)

Power Management

Power Input	Wide range DC 24~36V input
Power Connector	1 x 3-Pin power input connector

Ordering Information

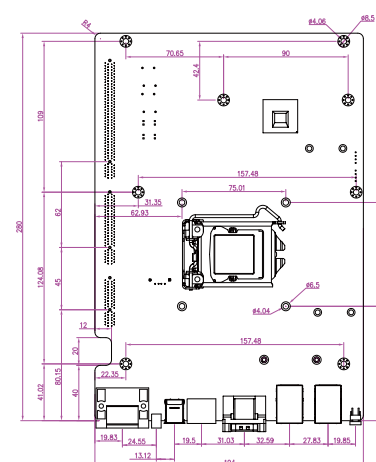|	
ASB-M8371CB	Socket H4, 8th/9th Gen Intel Core/Xeon Processors, C246, 2 x SO-DIMM DDR4, DP/HDMI, Riser Card Expansion (On Bottom-side)

I/O

Super I/O	Nuvoton NCT6106D
Ethernet	1 x PCIe GbE LAN for external by Intel I219LM 1 x PCIe GbE LAN for external by Intel I210AT
USB	4 x USB 3.1 Gen.2, Type-A stack ports w/RJ45 for external 2 x USB 3.1 Gen.2 USB 2.0, Type-A stack ports for external 4 x USB 2.0 via 2 x pitch 2.0mm, 2 x 5-Pin header 1 x Internal USB 2.0, Type-A 2 x USB 2.0 for mini PCIe
Serial	2 x RS-232/422/485 port, DB-9 connector, Pin 9 with 5V/12V Ring selectable (COM1/COM2) 4 x RS-232 port, via DF-13-40P(MIO2)
GPIO	8 x bit GPIO (4 x DI, 4 x DO) via DF-13-30P (MIO1)
Storage	4 x SATA 3.0 Connector, Support RAID (0/1/5/10) 4 x SATA Power 1 x M.2 M-Key (PCIe×4, SATA and SMBus), support 2242/2280
Audio	Support Audio via Realtek ALC269-VC Line-in/Line-out/Mic-in via DF-13-30P (MIO1) Support a stereo Class-D Speaker Amplifier with 2 watt per channel output power, by 1 x 4-Pin header (SPK1)
FAN	1 x CPU FAN, offer 12V, 500mA, 6W via DF-13-30P(MIO1) 2 x 2.54mm Pitch 1 x 4-Pin Header SYS FAN, offer12V, 500mA, 6W Control via BIOS
SIM Card Holder	1 x Micro SIM Card Holder
Battery	Support CR2477 Li battery by 2-Pin header (1000mAH)

Dimension

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All specifications and photos are subject to change without notice.

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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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