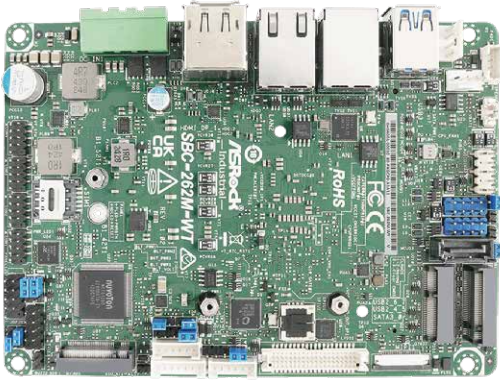


SBC-262M-WT

3.5" SBC Motherboard



KEY FEATURES

- Intel® Amston Lake Processors X7433RE
- 1 x 262-pin SO-DIMM DDR5 4800 MHz, up to 48GB
- 2 x USB 3.2 Gen2, 4 x USB 2.0, 1 x M.2 Key E, 1 x M.2 Key M, 1 x M.2 Key B, 4 x COM, 1 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Intel 2.5 Gigabit LAN
- Intel® TCC and TSN support for Real-Time Computing
- Supports Triple display, 1 x HDMI 2.0b, 1 x DP 1.4b, 1 x LVDS, 1 x eDP
- TPM 2.0 onboard IC
- 9~36V DC-In PWR

SPECIFICATIONS

Form Factor

Dimensions	3.5"SBC (5.8-in x 4-in x 1.03-in, 14.7 cm x 10.2 cm x 2.6 cm)
------------	---

Processor System

CPU	Intel® Amston Lake Processors X7433RE, QC, Max Speed Up to 3.4GHz, 9W
BIOS	AMI SPI 256 Mbit

Memory

Technology	Single Channel DDR5 4800 MHz
Capacity	48GB
Socket	1 x 262-pin SO-DIMM

Graphics

Controller	Intel® UHD Graphics
HDMI	HDMI 2.0b Max resolution up to 4096 x 2160@60Hz
DisplayPort	DP 1.4b Max resolution up to 4096 x 2160@60Hz
LVDS	Dual channel 24 bit up to 1920 x 1200@60Hz
eDP	eDP 1.4b Max resolution up to 4096x2160@60Hz
MultiDisplay	Triple display

Expansion Slot

M.2	1 x M.2 (Key E, 2230) with PCIe Gen3 x1, USB 2.0 1 x M.2 (Key B, 3042/3052) with PCIe Gen3 x1, USB 3.2 Gen1, USB2.0 and SIM for 4G/5G
SIM Socket	1x SIM socket connected to M.2 key B

Audio

Interface	Realtek ALC256 HD, High Definition Audio.
-----------	---

Ethernet

Controller/ Speed	LAN1: Intel® I226IT with 10/100/1000/2500 Mbps, supports TSN LAN2: Intel® I210IT with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O

HDMI	1 x HDMI 2.0b
DisplayPort	1 x DP 1.4b
Ethernet	1 x 1 Gigabit LAN, 1 x 2.5 Gigabit LAN
USB	2 x USB 3.2 Gen2
Power In	1 x Phoenix Connector

Internal Connector

USB	4 x USB 2.0 (2 x 2.54 pitch header)
COM	COM3, COM4 (RS-232) COM1, COM2 (RS-232/422/485)
GPIO	4 x GPI, 4 x GPO
LVDS	1
eDP	1
SATA PWR Output	1
Speaker Header	1
MIPI Camera Header	1

Storage

M.2	1 x M.2 (Key M, 2242/2280) with PCIe Gen3 x1 and SATA3 for SSD
SATA	1 x SATA3 (6Gb/s)

Security

TPM	TPM 2.0 onboard IC
-----	--------------------

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ...255sec

Power Requirements

Input PWR	9~36V DC-In
Power On	AT/ATX Supported - AT : Directly PWR on as power input ready - ATX : Press button to PWR on after power input ready

Environment

Operating Temp	-40°C ~ 85°C
Storage Temp	-40°C ~ 85°C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

BLOCK DIAGRAM

