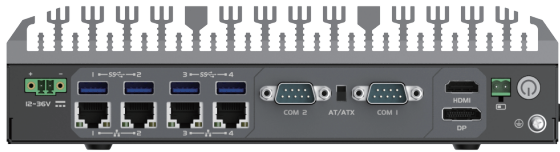


## FEATURES

- Intel® Alder Lake-U processor
- 5G module with antenna
- RS232/RS422/RS485 setting by BIOS
- Remote power switch
- Strong expandability for RS232 or CAN&DIO or POE
- DC 12~36V wide voltage input, support RVP/SCP/OVP/OCV



## SPECIFICATIONS

### System

CPU	Intel® Alder Lake-U processor
Memory	1 x SO-DIMM, DDR5 4800MHz, Max. 32GB
Storage	1 x M.2 M Key 2242/2280 (NVMe), 1 x 2.5" SATA3.0
Display	1 x HDMI 1.4b, 1 x DP 1.2
USB	4 x USB3.2 Gen1 Type-A
COM	2 x RS232/RS422/RS485 (setting by BIOS)
LAN	3 x 10/100/1000/2500Mbps RJ-45 (Intel I226-V), 1 x 10/100/1000Mbps RJ-45 (Intel I210-AT)
Expansion	1 x M.2 E Key 2230 (for WiFi & Bluetooth), 1 x M.2 B Key 3042/3052 (for 4G/5G)
TPM	TPM 2.0
Watchdog	1~255 levels programmable

### OS

OS Support	Windows10, Windows11, Linux
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### Power

Input Voltage	DC 12~36V
Power Consumption	40W

### Mechanical

Dimensions	273.0x166.0x66.5mm (10.7x6.5x2.6in)
Net Weight	2.53kg (5.58lb)

### Environment

Operating Temperature	0~50°C (32~122°F)
Storage Temperature	-20~60°C (-4~140°F)
Relative Humidity	5%~95% @40°C (non-condensing)
Vibration	Operating random vibration test 5~500Hz, 1.5Grms @with SSD, follows IEC 60068-2-64
Shock	Operating 15G peak acceleration (11ms duration), follows IEC 60068-2-27
EMC	CE/FCC Class A

## OPTIONS

### System

CPU	i3-1215U, 6 cores, base frequency 1.2GHz, TDP 15W i5-1235U, 10 cores, base frequency 1.3GHz, TDP 15W i7-1255U, 10 cores, base frequency 1.7GHz, TDP 15W
Memory	DDR5 memory, support 8GB, 16GB, 32GB
Storage	M.2 SSD, support 128GB, 256GB, 512GB, 1TB, 2TB 2.5" SATA3.0, support 128GB, 256GB, 512GB, 1TB, 2TB

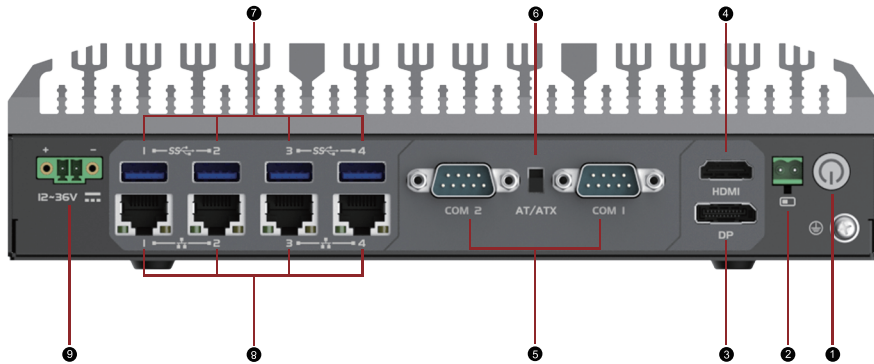
### Communications

4G/5G	4G/5G module with antenna
WiFi & Bluetooth	WiFi & Bluetooth module with antenna

### Expansion

Expansion Card 1	2 x Iso.RS232 COM, DB9 connector 2 x CAN, 4 x Iso.DI, 4 x Iso.DO
Expansion Card 2	4 x POE+, support 802.3at

## I/O LAYOUT



- 1 Power Button
- 2 Remote Switch
- 3 HDMI
- 4 DP
- 5 2 x COM, Optional:RS232/RS422/RS485
- 6 AT/ATX Switch
- 7 4 x USB3.2 Gen1
- 8 4 x RJ45
- 9 DC IN

## PRODUCT DIMENSIONS

