



Features

- Intel® Processor N97 low power-consuming processor support
- 1-DDR5 4800MHz SO-DIMM socket for data-intensive applications
- Intel® UHD Graphics
- Dual expansion slot M.2, Key-E/B for Wi-Fi, LTE, SSD, I/O module
- Rich I/O, 6-USB, 1-HDMI, 1-DP, 2-LAN (2.5GbE), 2-RS232
- Fanless operating temperature, 0 ~50°C
- dTPM 2.0 supported for data access control
- Flexible I/O module customization available



HDMI+DP
4K@60Hz



Ruggedized
Design



Fanless
0~50°C



+12/24Vdc



Compact Size
177x126x57mm

Specifications

System Information

Processor	Intel® Processor N97 (6M Cache, up to 3.60 GHz)
System Memory	1x 262-pin DDR5 4800MHz SO-DIMM socket, Max. up to 16GB
BIOS Information	AMI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 1sec. ~65535sec and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
TPM	On Board TPM 2.0
SBC	ECM-ASL

Expansion

M.2	1x M.2 Key-B (3042/3052/2242 (PCIe x1, USB 3.2 GEN1, USB 2.0) 1x M.2 Key-E (2230, 1x PCI-e x1, USB 2.0 Signal)
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Storage

M.2	1x M.2 (Key-B, 2242, PCIe x 1)
2.5 Drive Bay	1x 2.5 Drive Bay (SATA3, 7mm)

Front I/O

USB	2 x USB2.0
Power Button	1x Power Button
Reset Button	1x Reset Button
LED Indicator	1x Power on/off LED 1x Storage Access LED
Audio	1x Mic-in 1x Line-out

Rear I/O

USB	3 x USB 3.2 Gen2 1x USB 2.0
COM Port	2 x RS232
LAN Port	2 x RJ-45 (2.5GbE)
DP	1x DP 1.4a
HDMI	1x HDMI 2.0b
Antenna	2 x Antenna Mounting with Dust Protection Cover
AC/DC Input	1x Lockable DC Jack

Display

Graphic Chipset	Intel® UHD Graphics
Resolution	HDMI 2.0b Max resolution 4096 x 2160 @ 60Hz DP 1.4a Max resolution 4096 x 2160 @ 60Hz

Audio

Audio Codec	Realtek ALC888S HD Audio Decoding Controller
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Ethernet

LAN Chipset	2 x Intel Ethernet Controller I226V
Data Rate Per Port	10/100/1000/2.5G Base-Tx GbE compatible

Power Requirement

Voltage Input Spec.	Typical +12V/24V
Power Mode	AT/ATX (ATX is Default Setting)
Adapter	60W AC to DC Adapter (Default)/ 120W AC to DC Adapter (Option) Note1: 60W for general mode (storage, communication, display, USB port, room temp.) Note2: 120W for full load mode (general mode pluses max. workload and operating temp.)

Software Support

OS	Win10, Win11, Linux
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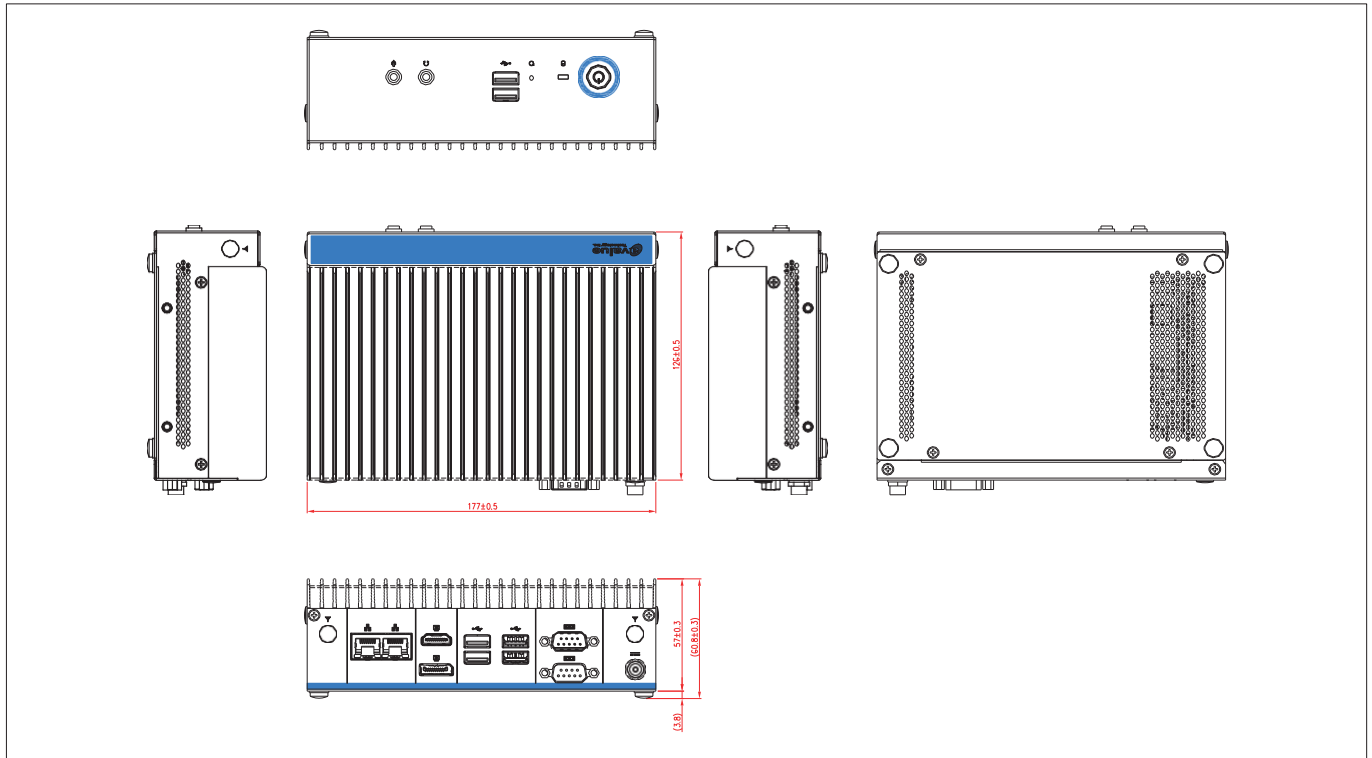
Certification

Certification Information	CE, FCC Class B, UKCA
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Mechanical & Environmental

Operating Temp.	With extended temperature peripherals: 0°C ~50°C (32°F ~122°F) with 0.5m/s air flow
Storage Temp.	-30 ~70°C (-22°F ~158°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Dimension (W x L x H)	177 x 127 x 57mm (6.97" x 4.96" x 2.24")
Vibration Test	With SSD: 1.5Gms, IEC 60068-2-64, Random, 10 ~500Hz, 30min/Axis, 3 Axis
Shock Test	With SSD: 10G, IEC 60068-2-27, Half Sine, 11ms, Z Axis
Drop Test	ISTA 2A, IEC-60068-2-32 Test : Ed, 1 Corner, 3 Edges, 6 Faces
Mounting Kit	Wall Mount Kit (Default)

Mechanical Drawing



Ordering Information

P/N	Processor	Memory	Adapter	Mounting Kit	I/O Ports (COM/USB/LAN)	Display Output	Power Input	Working Temp.
EPC-ASL-N97-A1-1R	Intel® Processor N97	8GB DDR5	12V/5A	Wall Mount	1/6/2	HDMI/DP	12V DC in	0°C ~50°C

Packing List

Item	Quantity
EPC-ASL System	1
AC/DC Adapter 12V/5A	1
Wall Mount Kit	1
M.2 2252 to 2242 Bracket	1
Screw Kit for Peripherals	1

Optional Items

Item	P/N
AC/DC adapter 12V/10A	ACC-ADP-120N-07R
Power Cord 3P (F)-3P (M) 183cm, USA Type	E1702031833R
Power Cord SL-6+SL-3 183cm, EU Type	E1702031000R
Power Cord 3P (F)-3P(M) 183cm, Japan w/PSE Type	E1702031834R
Power Cord QP-026+SL-3 183cm, UK Type	E170P060380R
Power Cord 3P (F)-3P (M) 183cm, Australia Type	E1702031831R

I/O Overview

