

# Rugged Mini L2 v5

## Technical Specifications

### Features

- Intel® 12<sup>th</sup> Gen Alder Lake U Processor
- Fanless Design
- Ultra Slim Design (29mm)
- Lockable Power Jack
- Low Power Consumption
- 4 Independent Displays



### Specifications

#### System

Processor	Intel Core i5-1245UE, 2P & 8E cores, 12MB Cache, 3.3Ghz to 4.4GHz Intel Core i3-1215UE, 2P & 4E cores, 10MB Cache, 3.3Ghz to 4.4GHz
System Chipset	Alder Lake U SoC Integrated
Graphics Controller	Intel UHD Graphics (Core i3) Intel Iris Xe Graphics (Core i5 - Requires dual channel memory)
LAN Chipset	2x 2.5GbE: Intel I226-LM
Audio	Realtek ALC888 HD Audio
System Memory	Up to 64GB DDR4 3200 (2x SO-DIMM)
BIOS	AMI 128Mbit
TPM	Optional: TPM 2.0 discrete module (Infineon)
vPro	Optional: CPU Dependent
Watchdog	Software Programmable Supports 1~255 sec. System Reset

#### Storage

SSD/HDD	1 x 2.5" SATA Bay
NVMe	M.2-2242 w/PCIe x4 or SATA Support

#### Expansion

M2	1x M.2 2230 "E" Key for WiFi 1x M.2 2242 "B" key for WAN w/nanoSIM slot 1x M.2 2242 "M" Key for NVMe or SATA
SIM Socket	1x Internal SIM socket (for M.2 "B" key)

#### Other

Cooling Method	Fanless
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#### I/O

Video	2 x HDMI 2 x DP (Display Port)
COM	2x DB9 Serial RS232/422/485
USB	2x USB 3.2 (Type A) 1x USB 3.2 (Type C) 2x USB 2.0
LAN	2x 2.5GbE RJ45
WLAN	Intel WiFi6 Wireless AX200 + BT 5.2 LE (Optional)
Audio	1 x Speaker-out
Other	1x Power Switch 1x Micro Header connector for external Power Switch

#### Operating System

Windows	Windows 11 Pro Windows 10 IoT Enterprise LTSC Windows 11 IoT Enterprise GAC
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#### Power

Power Input Voltage	19VDC
Power Connector	1 x Barrel Jack 5.5 x 2.5 mm (Lockable)
Power Adapter	External Power Adapter, 19V @ 4.74A

#### Environment

Operating Temperature	14°F to 122°F (-10°C to 50°C) with SSD
Storage Temperature	-4°F to 176°F (-20°C to 80°C)
Relative Humidity	10% - 90% non-condensing
Shock	With SSD: Half-sine wave shock 50G, 11ms
Vibration	With SSD: 2 Grms, 5 ~ 100Hz, 3 axis, 1hr/axis
IP Level	IP40
Certification	FCC Class B, CE, RCM, BSMI, VCCI, UKCA, IC

#### Physical

Enclosure Materials	Extruded Aluminum with Heavy Duty Steel
Dimension (W x H x D)	11.22" x 7.72" x 1.14" (285 x 196 x 29 mm)
Weight	5.94 lb (2.24 kg)
Mounting	VESA 75/100

#### Warranty

Warranty	1-year standard
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