

Rugged Mini G v3

Technical Specifications

Features

- Intel Alder Lake N Processor
- Fanless Design
- Slim Design (39mm)
- Lockable Power Jack
- Low Power Consumption
- Wide Power Input (12 ~ 36VDC)
- 2 Independent Displays
- 2 x 2.5Gbit Ethernet ports
- 6 x COM ports
- 4in / 4out DIO port



Specifications

System

Processor	Intel Alder Lake Processor N97, 4 Core, 4 Thread, 6MB Cache, up to 3.6Ghz Optional: Intel Alder Lake Core i3-N305, 8 Core, 8 Thread, 6MB Cache, Up to 3.8GHz
System Chipset	Alder Lake N SoC Integrated
Graphics Controller	Intel UHD Graphics
LAN Chipset	2 x 2.5GbE: Intel I225-V
Audio	Realtek ALC897
System Memory	Up to 16GB DDR5-4800 (1x SO-DIMM)
BIOS	AMI 128Mbit
TPM	TPM 2.0 (dTPM Infineon)
Watchdog	Software Programmable Supports 1~255 sec. System Reset

Storage

SSD/HDD	1 x 2.5" SATA Bay
NVMe	1 x M.2 2280 "B-Key" PCIe x1 SATA Only

Expansion

M.2	1 x M.2 2230 "E" Key for WiFi 1 x M.2 2280 "B" key for SATA
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Other

Cooling Method	Fanless
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I/O

Video	1 x Display Port (DP) 1 x HDMI
COM	1 x DB9 Serial COM 1 RS232/422/485 1 x DB9 Serial COM 2 RS232 Optional: 2x DB9 Serial RS232 (COM 3 ~ 4) using M.2 module
USB	6 x USB 2.0 2 x USB 3.2 Gen 2 2 x USB 3.2 Gen 1
LAN	2 x 2.5GbE RJ45
WLAN	Intel WiFi6 Wireless AX200 + BT 5.2 LE (Optional) Intel WiFi6e Wireless AX210 + BT 5.2 LE (Optional)
Audio	1 x Mic-in, 1 x Line-out
DIO	4 IN / 4 OUT (DB9)
Other	1 x Power Switch Optional: 2x CAN Bus (Alternate to COM 3 & 4) Using M.2 module

Operating System

Windows	Windows 10 Pro 64bit Windows 10 IoT Enterprise SAC or LTSC
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Power

Power Input Voltage	9 ~ 36 VDC
Power Connector	1x Barrel Jack (Lockable) 1x 2pin Phoenix Terminal Connector
Power Adapter	External Power Adapter, 19V @ 3.42A

Environment

Operating Temperature	14° - 131°F (-10° - 55°C) with SSD
Storage Temperature	-4° - 176°F (-20° - 80°C)
Relative Humidity	10 ~ 90%, Non-condensing
Shock	IEC61373 Category 1, Class B
Vibration	IEC61373 Category 1, Class B
Certification	CE, FCC, RCM, VCCI, BSMI, RoHS

Physical

Enclosure Materials	Extruded Aluminum with Heavy Duty Steel
Dimension (W x H x D)	7.87" x 5.90" x 2.16" (200 x 150 x 55 mm)
Weight	3.05 lbs. (1.39 kg)
Mounting	Wall Mount Standard VESA 75/100 (Optional) DIN Rail (Optional)

Warranty

Warranty	1-year standard
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