

ROUGHNECK 22

SPECIFICATION SHEET



Introducing RoughNeck, our modular rugged panel PC. Fully customizable and Class 1 Division 2 certified.

CUTTING-EDGE PROCESSING

Available with 12th Gen or 14th Gen Intel® processors for efficient, multi-threaded performance.

MEMORY & STORAGE

Supports up to 64GB of DDR5 RAM and up to two 4TB SSDs with optional RAID configurations for enhanced performance and data protection.

BUILT FOR HAZLOC ENVIRONMENTS

Available in 15.6" and 21.5" widescreen models. Customizable, certified, and tested for reliable operation in the harshest conditions.

FULLY CUSTOMIZABLE I/O

Choose only the connectors you need. The modular design makes it easy to match the system to your exact requirements.



DESIGNED FOR YOUR NEEDS


A dedicated space for custom board integration allows us to easily install pressure decoders, modems, or other hardware into the system.



OPTIONAL AIRJET COOLING

AirJet's active, solid-state cooling technology is available for up to 30% improved thermal performance in extreme temperature environments.



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SYSTEM

Display: 21.5" LED Backlit LCD | 1920x1080 (16:9) | 1000 NIT | Projected Capacitive Multitouch

Processor: 12th Gen Intel® Core™ i5 (1235U) / i7 (1255U) / 14th Gen Intel® Core™ Ultra 5 (135U) / 7 (165U)

Storage: Up to 4TB M.2 NVME SSD | Optional 2nd 2.5" SATA SSD up to 4TB (RAID 0,1 Configurable)

Memory: 8GB / 16GB / 32GB / 64GB DDR5 RAM

Power input: 110-240V AC / 9-36V DC

Operating System: Windows 10 IoT / 11 IoT / 11 Pro / Linux

I/O*

*I/O is configurable

Video: 1x HDMI (Optional - not available in Hazloc certified model)

LAN: Up to 2x RJ45 GBE | Optional 4x Power Over Ethernet (PoE) Expansion Slot

USB: Up to 3x USB 3.0

Serial: 1x RS232 or RS485 (Optional)

Wireless: WiFi 6E, Bluetooth | Optional 4G / 5G / LTE / 900Mhz radio

Connectors: Industrial / Marine / EX

ENVIRONMENTAL

Operating Temp: -40°C to +60°C (-40°F to +140°F)

Storage Temp: -40°C to +70°C (-40°F to +158°F)

Relative Humidity: < 95% non-condensing

Ingress Protection: IP65 - All Sides

Certifications: CSA, UL, CE, FCC, UKCA, RoHS

HazLoc Certifications: ATEX, C1D2, C1Z2, IECEx

MECHANICAL

Mounting: Chain, VESA support

Weight: 10.6kg (23.37lbs)

Dimensions: 562mm X 354mm X 77.8mm (22.13" x 13.94" x 3.06")

Construction: Aluminum alloy

MODEL NUMBERS

Standard: ROU22WD

ATEX/C1D2/C1Z2: M-ROU22WD

IECEx: IEC-ROU22WD

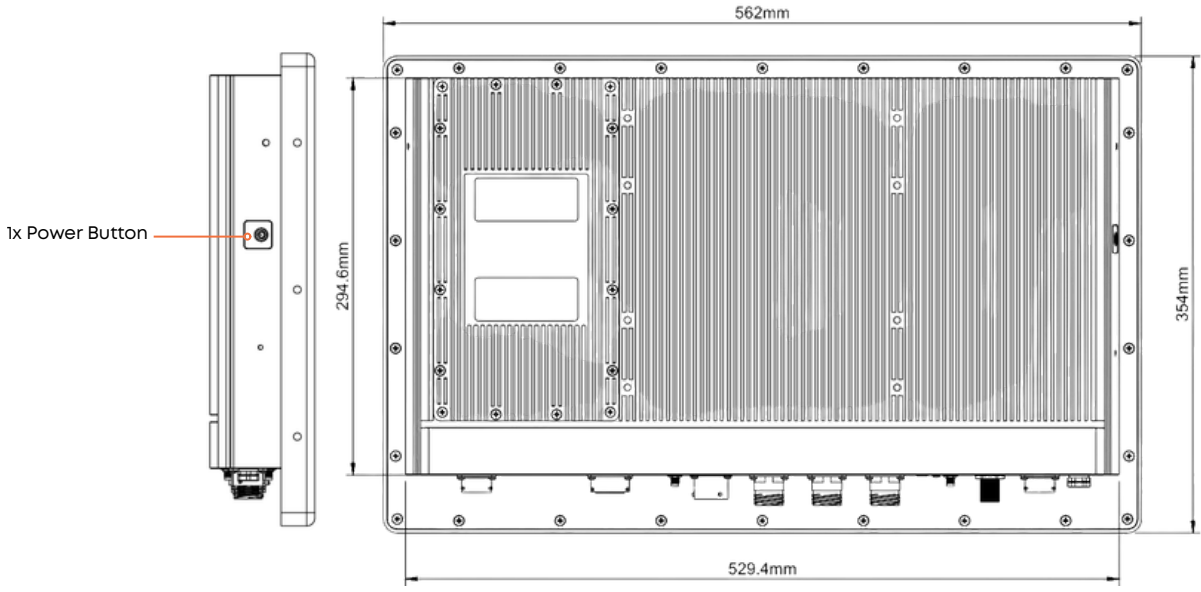
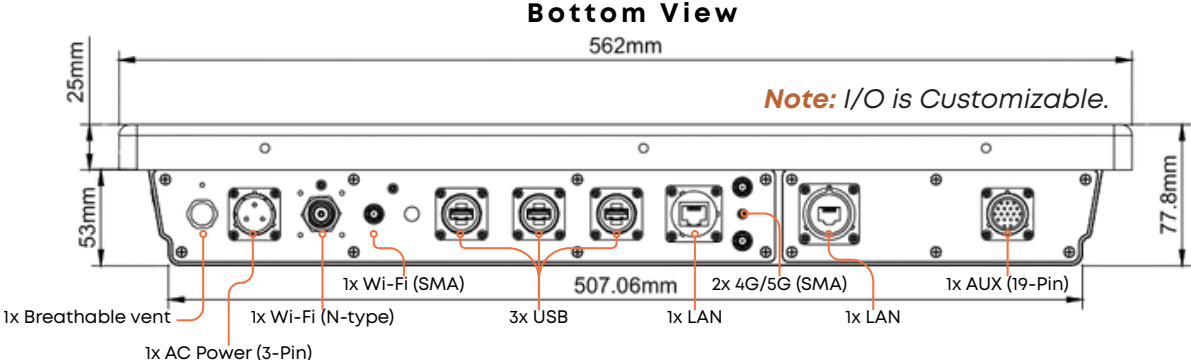
BUMPER TO BUMPER

3 YEAR PRODUCT WARRANTY

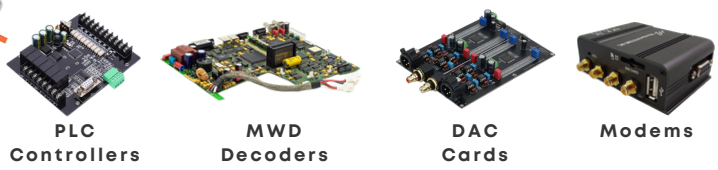
Although our systems are built for extreme environments and outcomes, they can still be damaged. We understand accidents happen on the field and are here to ensure the reduction of your operational downtime.

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We Help **Embed** and **Certify** your Technologies



And Many More...

ACU-EDGE MINI - SBC

SPECIFICATION SHEET

Version 1.0

SYSTEM

Processor: Intel® Core™ Celeron N100 (4 Cores, 4 Threads, 3.40 GHz Turbo, 6W TDP)
Onboard Intel® UHD Graphics with max resolution of 4096 x 2160@60Hz

Storage: Up to 4TB M.2 NVME SSD | Optional 2nd 2.5" SATA SSD up to 4TB

Memory: 8GB / 16GB DDR5 RAM Up to 4800 Mhz

Power input: 9-36V DC

Operating System: Windows 10 IoT / 11 IoT / 11 Pro / Linux

I/O*

Video: 1x HDMI, 1x Display Port

LAN: 3x RJ45 GBE (POE Optional)

USB: 2x USB 2.0

Serial: 6x COM, (COM1 and COM2 are RS232 by default , RS485/RS422 can be selected in BIOS)

Expansion: 1x M.2 B, 1 Sim Card Slot, 1x M.2 E, 1x CAN

GPIO: 8Pin

MECHANICAL

Temperature: -40°C ~ +85°C; Storage humidity: 0% ~ 90% relative humidity, no condensation

Weight: 106g (0.23lbs)

Dimensions: 146mm X 102mm (5.75" X 4.02")

MODEL NUMBERS

Standard: A-EDGE-MINI-SBC