

UNO-258

Edge AI Compact Box PC with Intel® Core™ Ultra Processor

Coming Soon



Features

- Intel® Core™ Ultra series 3 processors (Panther Lake H) with 25W TDP support
- Integrated AI acceleration providing up to 180 TOPS total AI performance (120 GPU + 50 NPU + 10 CPU)
- Xe3 GPU architecture providing up to 2× the graphics performance compared to Arrow Lake-H
- Dual-channel DDR5 SO-DIMM memory supporting up to 128GB (64GB per channel)
- M.2 E-Key, B-Key, M-Key (supports NVMe) expansion for storage, LTE/5G, and Wi-Fi
- Built-in 1000Mbps & 2500Mbps LAN ports with TCC and TSN support
- Modular I/O board design offering dual LAN or isolated DIO/CANBUS/COM

Specifications

General

- Certification** CE, FCC Class A, UL, CCC, BSMI
- Dimensions (W x D x H)** 160 x 160 x 60 mm (6.30 x 6.30 x 2.36 in)
- Form Factor** Compact Box PC
- Enclosure** Aluminum housing
- Mount Options** Stand, Wall mount, VESA (Optional), DIN-rail (Optional).
- Weight (Net)** 2.5kg (5.5lb)
- Power Requirement** 12-24V_{DC}
- Power Consumption** LAN: 55W; Iso: TBD
- OS Support** Windows 11 LTSC, Ubuntu 24.04

System Hardware

- BIOS** AMI EFI (256 Mbit)
- Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- TPM** TPM 2.0
- Processor** Intel® Core™ Ultra 7 358H (16 cores), up to 4.8 GHz
Intel® Core™ Ultra 5 325 (8 cores), up to 4.5 GHz
- Memory** 2 slots for DDR5 7200 (up to 64GB max per slot)
- Graphics Engine** Intel® ARC Graphics (Xe3)
- Ethernet** LAN A: Intel i219-LM 1Gb/s, IEEE 802.3, 802.1as/1588
LAN B/C: Intel® i226-LM, 2.5Gb/s, IEEE 802.3, 802.1as/1588
LAN D/E (optional): Intel® i226-LM, 2.5Gb/s, IEEE 802.3, 802.1as/1588
- LED Indicators** Power, Battery, NVMe, Run
- Storage** 1 x M.2 M-key 2280 (PCIe x4, Gen 4 NVMe)
- Expansion** 1 x M.2 B-key 3052 (USB 3.2, Gen 2)
1 x M.2 E-key 2230 (PCIe x1/USB2.0)
1 x M.2 M-key 2280 (PCIe x4, Gen 4 NVMe, share with storage)
- SIM Slot** Yes (1 x Nano size)

Front I/O

- Display** 1 x HDMI 1.4 (up to 4096 x 2160 @30Hz)
- Ethernet** LAN A: Intel® i219-LM
LAN B/C: Intel® i226-LM
- USB** 2 x USB 2.0
3 x USB 3.2 (Gen2)
1 x USB Type-C (USB3.2 Gen2, support DisplayPort1.4 Alt. Mode)
- Power connector** 1 x 2-Pin Terminal block

Rear I/O - LAN

- Ethernet** LAN D/E: Intel® i226-LM
- Serial Ports** 2 x RS-232/422/485
- GPIO** GPIO x 8 bit
- CANbus** 2 x CAN 2.0

Rear I/O – Isolated

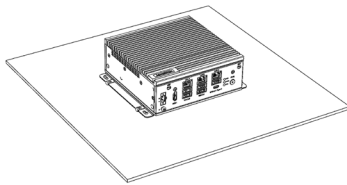
- Serial Ports** 2 x RS-232/422/485 (Isolated, 2.5KV)
- CANbus** 2 x CAN 2.0 (Isolated, 2.5KV)
- DI/O** 4 x Digital input channels with 2500 V_{DC} isolation protection
- Wet contact: Logic 0: 10 ~ 30 V_{DC}/ Logic 1: 0 ~ 3 V_{DC}
- Dry contact: Logic 0: Shorted to GND/ Logic 1: Open
4 x Digital output channels
- Output voltage: 5 ~ 30 V_{DC}
- Output capability sink: 500 mA max./channel

Environment

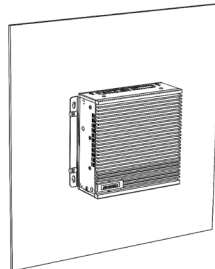
- Operating Temperature** -20 ~ 60°C (-4 ~ 140°F) with 0.7 m/s airflow
- Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- Relative Humidity** Operating, 95% RH @ 40°C, non-condensing
Non-operating, 95%RH @ 60°C, non-condensing
- Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- Vibration Protection** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis
- Ingress Protection** IP30

Installation Scenario

Stand/Wall Mount

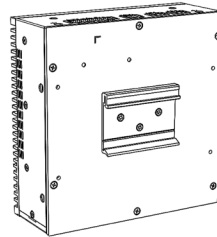


Wall Mount

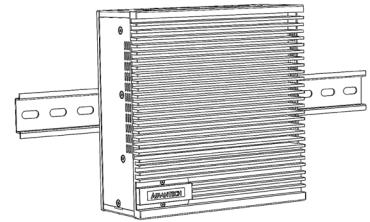


Stand Mount

DIN-Rail Mount (Optional)



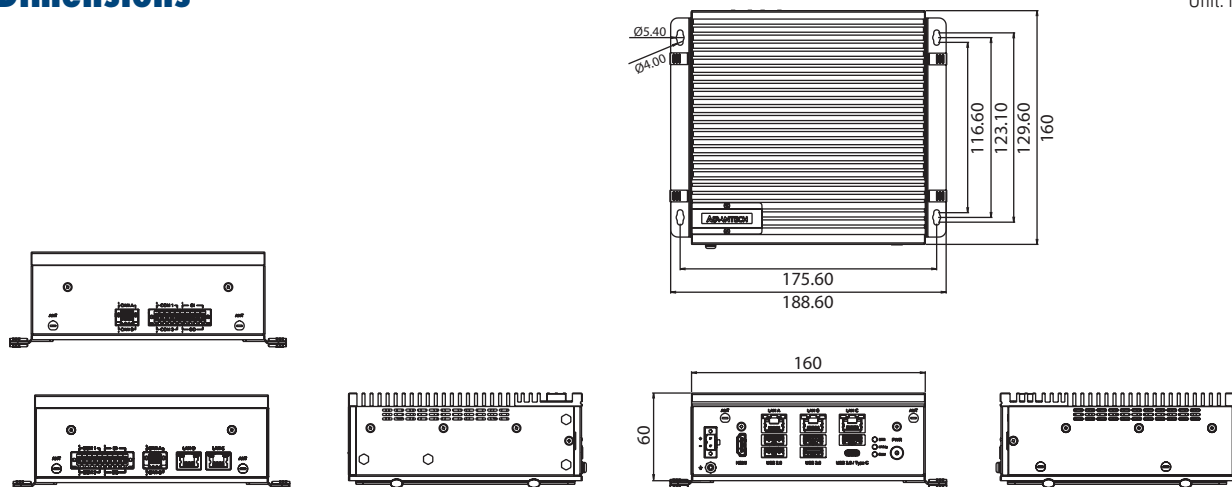
DIN-Rail Assembly



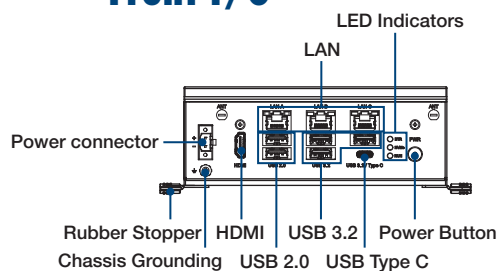
DIN-Rail Installation

Dimensions

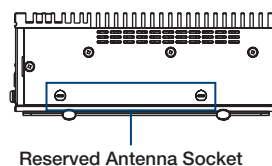
Unit: mm



Front I/O

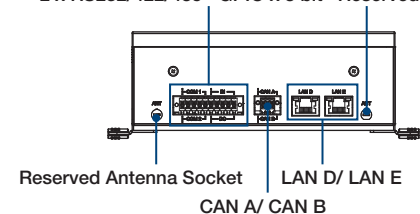


Right I/O



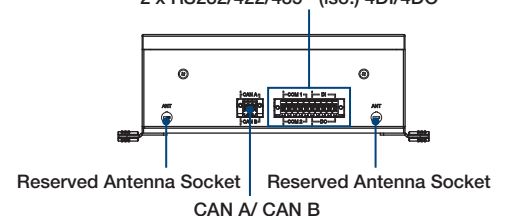
Rear I/O - LAN

COM1/COM2
2 x RS232/422/485 GPIO x 8 bit Reserved Antenna Socket



Rear I/O - ISO.

(iso.) COM1/COM2
2 x RS232/422/485 (iso.) 4DI/4DO



Ordering Information

Model	Ordering Part Number	CPU	LAN	COM	DIO	USB
UNO-258	UNO-258-U371NA	U7-358H	3	2 (Iso.)	4DI/4DO (Iso.)	5
	UNO-258-U37LNA	U7-358H	5	2	GPIO x8 bit	5
	UNO-258-U351NA	U5-325	3	2 (Iso.)	4DI/4DO (Iso.)	5
	UNO-258-U35LNA	U5-325	5	2	GPIO x8 bit	5

Optional Accessories

- **96PSA-A150W24T2-4** Power Adapter 100-240V 150W 24V
- **1702002600** Power Cable US Plug 1.8 M (Industrial Grade)
- **1702002605** Power Cable EU Plug 1.8 M (Industrial Grade)
- **1702031801-11** Power Cable UK Plug 1.8 M (Industrial Grade)
- **1700000596-11** Power Cable China/Australia Plug 1.8 M (Industrial Grade)
- **UNO-2000G-VMKAE** UNO-2000 VESA Mount Kit
- **UNO-200-DMKBE** UNO-200 series DIN-rail kit
- **UNO-2000-LKAE** Cable lockable kit 10 units/per pack
- **1990021846N020** Thermal pad for 2nd RAM
- **1990041183N010** Thermal pad for M.2 E key module
- **1990042901N000** Thermal pad for M.2 B key module