



RUGGED EMBEDDED COMPUTER

RCO-1000-ASL-10

Fanless Mini Computer with Intel® Atom® x7433RE/x7835RE Processors, 1x DP, 1x HDMI, 4x USB, 1x 2.5" SATA HDD Bay



Features

- Support Intel® Atom® x7433RE/x7835RE Processors
- 1x 262-pin DDR5 SO-DIMM. Max. up to 16GB
- 2x 2.5GbE (Wake-on-LAN and PXE)
- 1x 2.5" SATA HDD Bay
- 1x M.2 (B Key 2242 / 3042 / 3052) for 4G/SATA Module
- 2x RS-232/422/485, 3x USB 3.2 Gen2, 1x USB 2.0
- 9 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -40°C to 70°C
- TPM 2.0 Supported
- With 1x Universal Expansion Slots
- UL Listed

Specifications

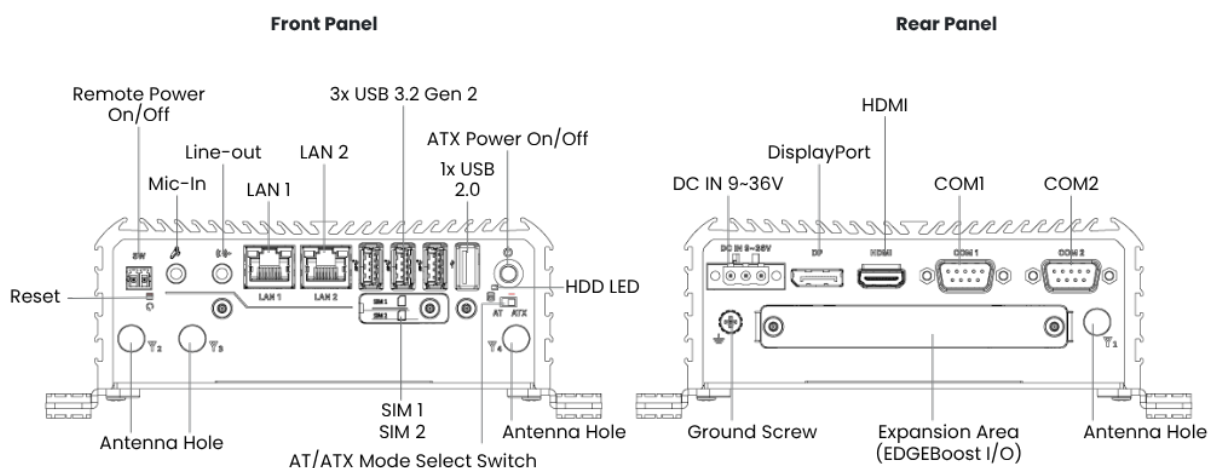
System	
Processor	- Intel Atom® x7433RE Processor 6M Cache, up to 3.40 GHz 4 core 9W (Default) - Intel Atom® x7835RE Processor 6M Cache, up to 3.60 GHz 8 core 12W
System Chipset	SoC integrated
LAN Chipset	2.5 GbE1: Intel I226 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel I226 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888C
System Memory	1x 262-Pin DDR5 4800MHz SODIMM. Max. up to 16GB (In-Band ECC Supported)
Graphics	Intel® UHD Graphics
BIOS	AMI 256Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0
Display	
Display Port	1x DisplayPort (3840 x 2160@60Hz)
HDMI	1x HDMI 1.4b (Resolution up to 3840x2160 @ 30 Hz)
Multiple Display	Dual Display
Storage	
M.2	1x M.2 (B-Key, 2242/3042/3052, USB 3.2/PCIe x1/SATA, Supports 4G/SATA Module)
SIM Socket	2x External SIM socket
SSD/HDD	1x Internal 2.5" SATA HDD Bay (support H=9.5 mm)
Expansion	
M.2	1x M.2 (E-Key, 2230, PCIe x1 & USB2.0)
Expansion Modules	Optional:
	• 2-Port COM module with Super I/O Chipset • 4-Port USB module with USB hub • 1-Port DP 1.4 and DIO (4 in / 4 out, Isolated) • 1-Port HDMI 2.0 and DIO (4 in / 4 out, Isolated)
I/O	
Audio	1x Mic-in, 1x Line-out
CAN	2x CAN 2.0 A/B 2-pin Internal header
COM	2x RS-232/422/485
EDGEBoost I/O Bracket	1x EDGEBoost I/O Bracket
LAN	2x RJ45 (2.5 GbE)
USB	3x USB 3.2 Gen 2 (10 Gbps) 1x USB 2.0
Others	4x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x Internal CMOS Battery Cable 1x 4-PIN FAN Connector 1x Ground Screw 1x HDD LED, 1x Reset
Operating System	
Windows	Windows 10, 11
Linux	Linux Ubuntu 22.04
Power	
Power Adapter	Optional AC/DC 12V/5A, 60W
Power Mode	AT, ATX
Power Ignition Sensing	Adjustable power ignition management (Optional IGN Module, via BIOS setting)
Power Supply Voltage	9~36VDC
Power Connector	3-pin Terminal Block

Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
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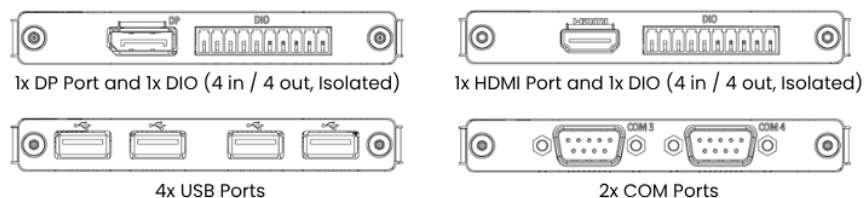
Environment	
Operating Temperature	-40°C to 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	UL 62368-1 4th Ed., CE, FCC Class A
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	With SSD: 50G, half sine, 11ms
Physical	
Dimensions	150 (W) x 105 (D) x 56 (H) mm
Weights	0.9 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting SIDE / VESA / DIN-Rail Mounting (Optional)

- For Intel® Atom® Processor x7433RE operating temperature limited -40°C to 70°C
- Intel CPUs may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 8 cores). Please note, this does not indicate system malfunction or problems in the fanless design. Please consult our embedded engineers for the best configuration to match your application requirements.
- All specifications and photos are subject to change without notice.

External I/O Mechanical Layout

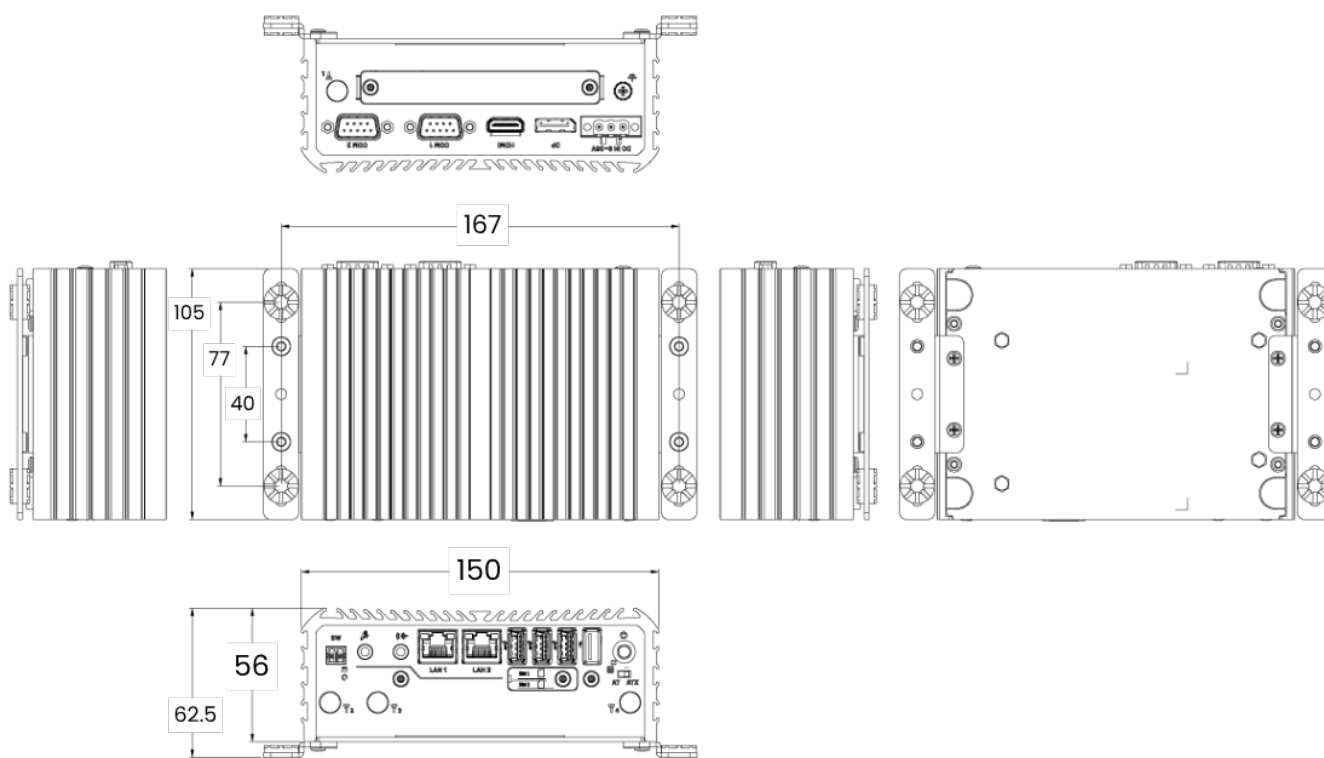


Available EDGEBoost I/O for Rear Panel



Dimension

Unit: mm



Compliances and Standards

Shock	With SSD: 50G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Operating Temperature	-40°C to 70°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMC	- FCC Class A - CE - ICES-003 - UKCA - Industrial EMC Compliance - EN 61000-4-2: 2009 - EN IEC 61000-4-3: 2020 - EN 61000-4-4: 2012 - EN 61000-4-5: 2014 +A1: 2017 - EN 61000-4-6: 2014
Safety	- UL Safety: UL62368-1, 4th Edition - Test procedure: CB Scheme - Standard: IEC 62368-1:2024

Available Models

Model No.	Description
RCO-1000-ASL-X7433RE-10-P	RCO-1000-ASL-10,X7433RE,60W,WALLMOUNT,POWER CORD,1XE BIO
RCO-1000-ASL-X7835RE-10-P	RCO-1000-ASL-10,X7835RE,60W,WALLMOUNT,POWER CORD,1XE BIO

Optional Accessories

Model No.	Description
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00003	Power Cord, 3-pin JAP Type, 180cm
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00018	Power Cord, 3-pin AS/NZS Type, 180cm
3-SIDE-0003	RCO-1000-20 Series Side Mount Kit
3-DINR-0005	RCO-1000 Series DIN-Rail Mount Kit
3-VESA-0003	RCO-1000 Series VESA Mount Kit

Packing List

1x RCO-1000-ASL-10 Series Embedded System
1x Wall Mount Kit
1x Accessory Kit

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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