



RUGGED EMBEDDED COMPUTER

RCO-1000-EHL-30-2P

Compact fanless embedded system with Intel Atom®/Celeron® CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay, Dual PoE

Features

- Support Intel Atom®/Celeron® Processor
- 1x 260-pin DDR4 SODIMM. Max. up to 32GB
- Dual Independent Display by 2x Display Port
- 1x 2.5GbE, 1x GbE supporting (Wake-on-LAN and PXE)
- 1x 2.5" SATA HDD Bay, 1x mSATA
- 1x M.2 (B Key, 2242/3042/3052, Support 4G or Module Expansion)
- 2x PoE. Max. up to 30W
- 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 up to 50°C
- TPM 2.0 Supported
- With 3x Universal Expansion Slots
- Edge AI Ready with Hailo-8™ (26 TOPS / 2.5W)



Specifications

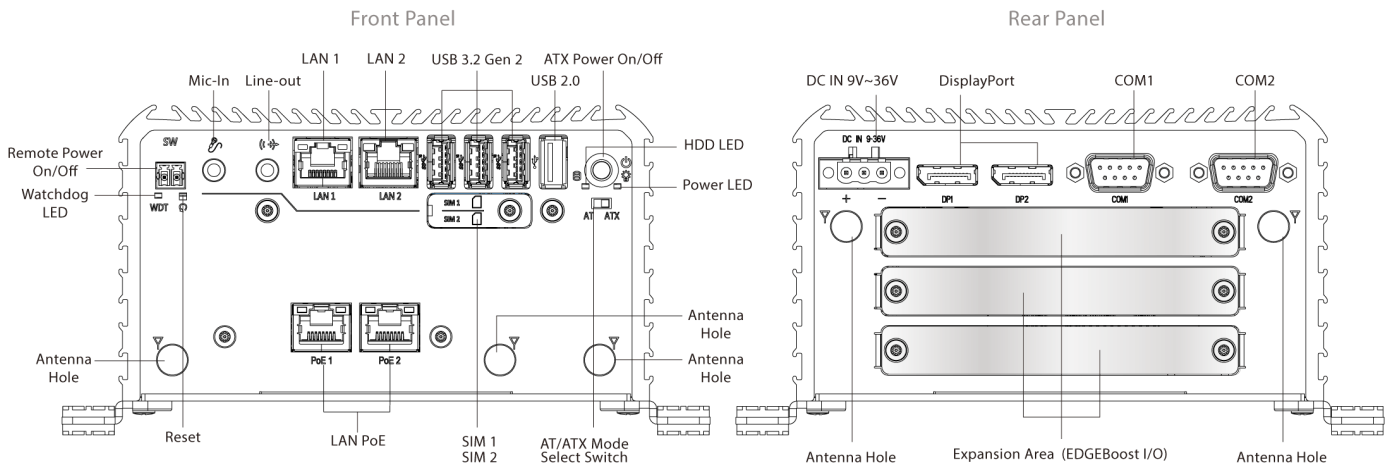
System	
Processor	Supports 11th Gen Intel® Celeron® / Atom® Processors X Series (Elkhart Lake)
Intel PC Client Series:	
-Intel® Celeron® Processor J6413, Quad Core, 1.5 MB Cache, 1.8 GHz, 10W TDP	
Intel® Embedded Series:	
- Intel® Atom® Processor x6425E, Quad Core, 1.5 MB Cache, 1.8 GHz, 12W TDP	
System Chipset	SoC integrated
LAN Chipset	1 GbE1: Intel I210 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel I225 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM. Max. up to 32 GB
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	2x DisplayPort 1.4, DP++ (4096 x 2160@60Hz)
Multiple Display	Dual Display
Storage	
M.2	1x M.2 (B Key, 2242/3042/3052, PCIe 1 + USB 3.2 Gen2, Support 4G or Module Expansion)
mSATA	1x mSATA (shared by 1x Mini PCI Express)
SIM Socket	2x External SIM socket
SSD/HDD	1x Internal 2.5" SATA HDD Bay (support H=9.5 mm)
Expansion	
Mini PCIe	1x Full-size Mini PCIe (Occupied by PoE Module)
Expansion Modules	
Optional:	
• 2-port COM module with Super I/O Chipset, Support 2x Universal Slot Only	
• 4-Port USB module with USB hub, Support 1x Universal Slot Only	
• 1-Port DP 1.4 and DIO (4 in / 4 out, Isolated), Support 1x Universal Slot Only	
• 1-Port HDMI 2.0, Support 1x Universal Slot Only	
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
LAN	2x RJ45 (2.5 & 1 GbE)
PoE	2x IEEE 802.3af (15.4W) GbE RJ45, Max up to 30w in total
Universal I/O Bracket	3x Universal I/O Bracket (By mini PCIe interface, Proprietary Module)
USB	3x USB 3.2 Gen 2 (10 Gbps) 1x USB 2.0
Others	5x 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
Operating System	
Windows	Windows 10
Linux	Linux Kernel

Power	
Power Adapter	Optional AC/DC 24V 5A, 120W
Power Mode	AT, ATX
Power Ignition Sensing	Adjustable power ignition management can be achieved through BIOS and optional daughter board.
Power Supply Voltage	9~36VDC
Power Connector	3-pin Terminal Block
Power Protection	OVP (Over Voltage Protection); OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temperature	0°C to 50°C (Supported by Intel® PC Client Series: J6413) -40°C to 50°C (Supported by Intel® Embedded Series: x6425E)
Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	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 83 (H) mm
Weights	1.2 kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	Wall Mounting SIDE / VESA / DIN-Rail Mounting (Optional)

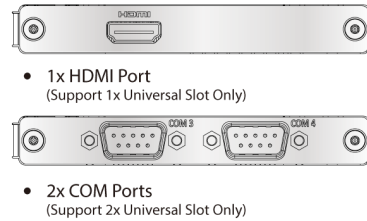
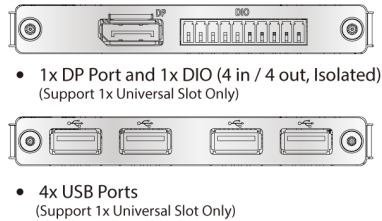
- For configured to run at 12W, operating temperatures will be limited to 50°C.
- 12W CPUS may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 4 cores). Please note, this does not indicate 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.

RCO-1000-EHL-30-2P

External I/O Mechanical Layout

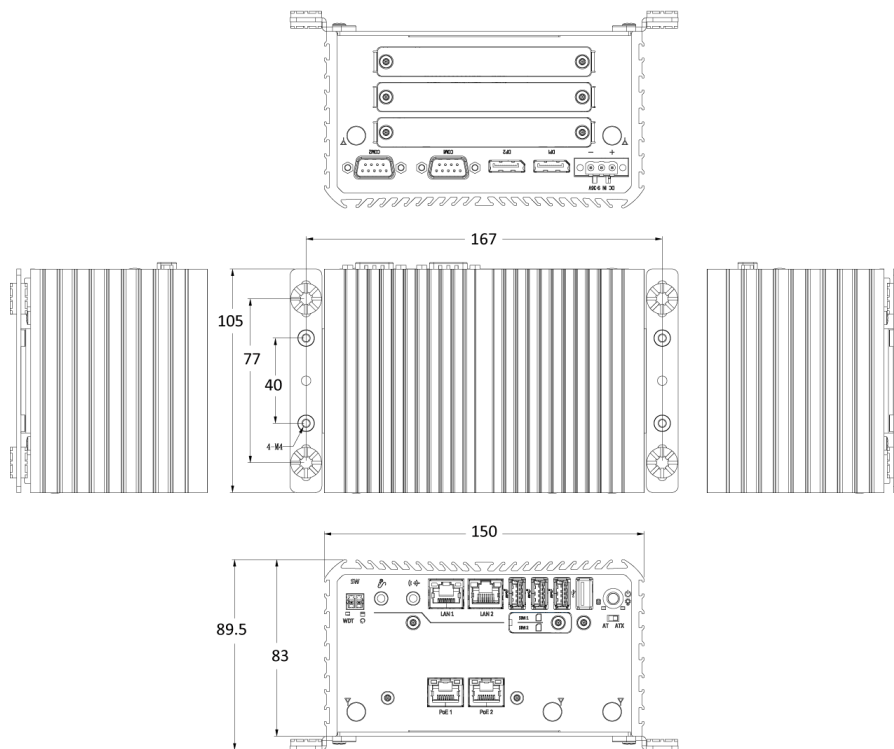


Available Expansion Module Options for Rear Panel



Dimension

Unit: mm





RCO-1000-EHL-30-2P

Available Models

Model No.	Description
RCO-1000-EHL-X6425E-30-2P	Fanless Mini Computer with Intel x6425E CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay, Dual PoE
RCO-1000-EHL-J6413-30-2P	Fanless Mini Computer with Intel J6413 CPU, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay, Dual PoE

Optional Accessories

Model No.	Description
1-E09A12002	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00002	Power Cord, European Type, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
3-SIDE-0004	RCO-1000-EHL-30 Series Side Mount Kit
3-VESA-0003	RCO-1000 Series VESA Mount Kit
3-DINR-0004	Din Rail-2 Mounting Kit

Packing List

1x RCO-1000-EHL-30-2P Series Embedded System
 1x Wall Mount Kit
 1x Accessory Kit



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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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