



FANLESS EMBEDDED SYSTEMS

RCO-1020C series

Compact Fanless Embedded System with Intel® Atom™ E3845 or Celeron® J1900, DVI-I, 1xDP, DIO, 4xCOM



FEATURES

- Intel® Atom™ Processor E3845, 1.91GHz or Intel® Celeron® J1900, 2.0GHz
- 1x 204-Pin DDR3L 1066/1333MHz SODIMM. Max. up to 8 GB
- Dual independent display supported by 1x DVI-I and 1x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 1x 2.5" SATA HDD bay, 1x mSATA, 2x SIM socket
- 2x Full-size mini PCIe for communication or expansion modules
- 4x DI + 4x DO with isolation
- 4x RS-232/422/485, 1x USB 3.0, 3x USB 2.0, and 1x Universal I/O Bracket
- 9 to 48VDC wide range power input supporting AT/ATX mode
- -40°C to 70°C extended operating temperature

SPECIFICATIONS

System

Processor	Intel® Atom™ Processor E3845, Quad Core, 2MB Cache, 1.91 GHz Intel® Celeron® Processor J1900, Quad Core, 2MB Cache, 2.0 GHz
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System Chipset	SoC integrated
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LAN Chipset	GbE1 & GbE2: Intel® I210-AT (Support Wake-on-LAN and PXE)
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Audio Codec	Realtek ALC888S
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System Memory	1x 204-Pin DDR3L 1066/1333MHz SODIMM. Max. up to 8 GB
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BIOS	AMI 64Mbit SPI BIOS
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Watchdog	Software Programmable Supports 1~255 sec. System Reset
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Display

VGA	Yes (by optional split cable)
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DVI	1x DVI-I
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DisplayPort	1x DisplayPort
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Multiple Display	Dual Display
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Storage

SSD/HDD	1x Internal 2.5" SATA HDD Bay
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mSATA	1x mSATA (shared by 1x Mini PCI Express)
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SIM Socket	2x External SIM socket
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Expansion

Mini PCI Express	2x Full-size Mini PCIe
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I/O

COM	2x RS-232/422/485 2x RS-232/422/485 (module)
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USB	1x USB 3.0, 3x USB 2.0
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LAN	2x RJ45
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Audio	1x Mic-in, 1x Line-out
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DIO	4 in / 4 out (Isolated)
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Universal I/O Bracket	1x Universal I/O Bracket (By mini PCIe interface)
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Others	4x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off
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Operating System

Windows	Windows 10, Windows 7, WES7
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Linux	Linux kernel 3.X
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Power

Power Mode	AT, ATX
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Power Supply Voltage	9~48VDC
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Power Connector	3-pin Terminal Block
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Power Adaptor	Optional AC/DC 12V/5A, 60W
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Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
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Environment

Operating Temp.	-40°C to 70°C
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Storage Temp.	-40°C to 85°C
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Relative Humidity	10% to 95% (non-condensing)
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Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
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Shock	With SSD: 50G, half sine, 11ms
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Standards / Certification	CE, FCC Class A
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Physical

Construction	Extruded Aluminum with Heavy Duty Metal
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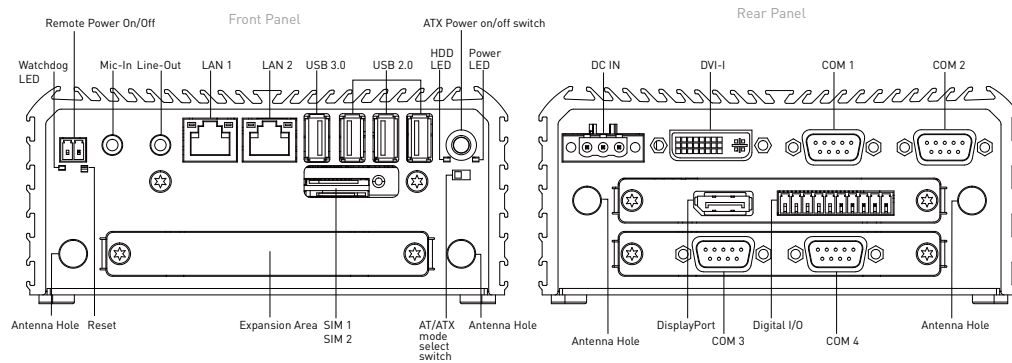
Dimension (WxDxH)	150 (W) x 105 (H) x 65 (H) mm
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Weight	0.97 kg
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Mounting	Wall Mounting Side / VESA / DIN-Rail Mounting (Optional)
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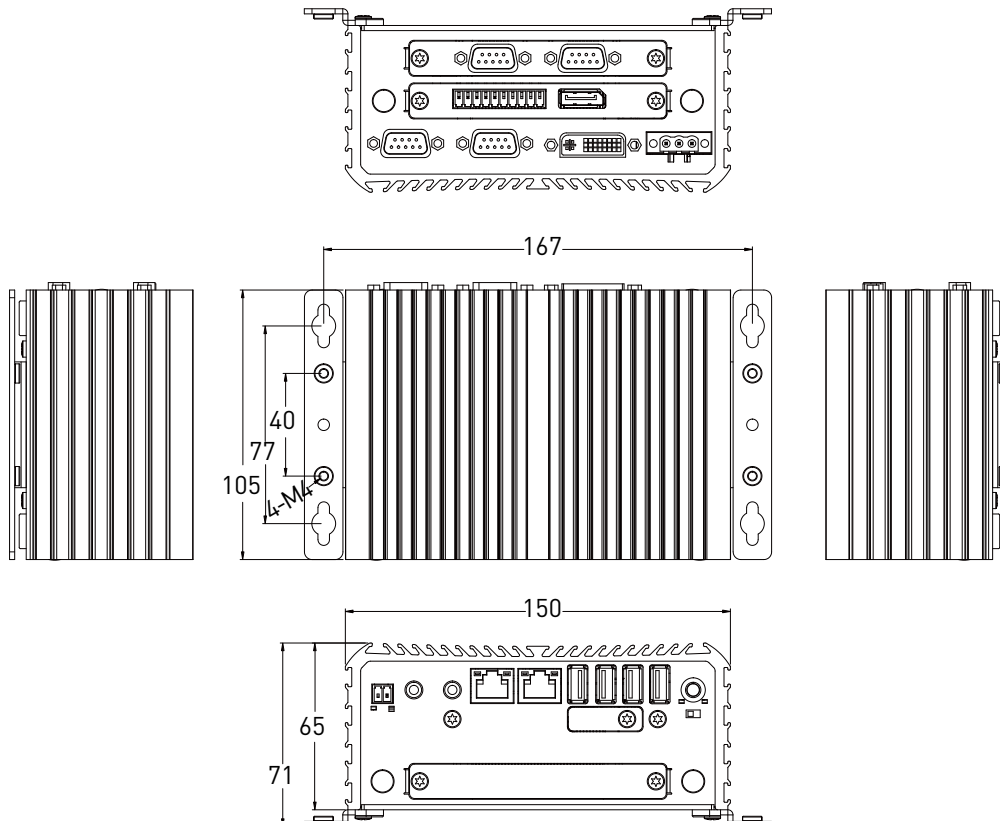
* All specifications and photos are subject to change without notice.

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm





RCO-1020C series

ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm
3-SIDE-0003	RCO-1020 Series Side Mount Ki
3-VESA-0003	RCO-1000 Series VESA Mount Kit
3-DINR-0004	DIN-Rail Mount Kit

PACKING LIST

- 1x RCO-1000 Series Embedded System
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

AVAILABLE MODELS

MODEL NO.	DESCRIPTION
RCO-1020C-E3845	Compact Fanless Embedded System with Intel® E3845 CPU, 1xDVI, 1xDP, DIO, 4xCOM
RCO-1020C-J1900	Compact Fanless Embedded System with Intel® J1900 CPU, 1xDVI, 1xDP, DIO, 4xCOM



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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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