

RCO-3022EE/PP

Rugged Fanless System w/ Intel® Broadwell-U Core™ i5/i3 or Celeron® Processor, 2x PCIe x4 or 2x PCI Expansion

FEATURES

- Intel Core i5-5350U, i3-5010U, or Celeron 3765U
- 1x 204-pin DDR3L SO-DIMM, up to 8GB
- 1x DVI-I and 1x DisplayPort
- 2x Intel GbE supporting Wake-on-LAN and PXE
- 2x 2.5" SATA HDD bay and 2x mSATA (RAID 0/1/5/10)
- 2x mini PCIe for communication or expansion modules
- 2x PCIe x4 (RCO-3022EE) or 2x PCI (RCO-3022PP)
- 2x SIM sockets
- 4x RS-232/422/485, 2x USB 3.0, 6x USB 2.0
- 8x isolated digital I/O
- 2x Universal I/O slots (For mini PCIe application)
- 9 ~ 48VDC wide range input supporting AT/ATX mode
- -40°C to 70°C extended operating temperature

SPECIFICATIONS

System	
Processor	5th Gen Intel Core i5-5350U Processor, Dual Core, 3MB Cache, up to 2.9 GHz 5th Gen Intel Core i3-5010U Processor, Dual Core, 3MB Cache, 2.1 GHz 5th Gen Intel Celeron Processor 3765U, Dual Core, 2MB Cache, 1.9 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) GbE2: Intel® I218-LM (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 204-Pin DDR3L 1333/1600MHz SODIMM. Max. up to 8GB
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Display	
VGA	Yes (by optional split cable)
DVI	1x DVI-I
DisplayPort	1x DisplayPort
Multiple Display	Triple Display
Storage	
SSD/HDD	1x Internal 2.5" SATA HDD Bay 1x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10
mSATA	2x mSATA (shared by 2x Mini PCIe)
SIM Socket	2x External SIM socket
I/O	
COM	4x RS-232/422/485
USB	2x USB 3.0, 6x USB 2.0
LAN	2x GbE RJ45
Audio	1x Mic-in, 1x Speaker-out
DIO	4 in / 4 out (Isolated)
Universal I/O Bracket	2x Universal I/O Slots
Others	3x WiFi Antenna Holes 1x Power Switch 1x AT/ATX Switch 1x Remote Power On/Off Connector



Expansion

Mini PCI Express	2x Full-size Mini PCIe
PCI Express/PCI	2x PCIe x4 (RCO-3022EE) or 2x PCI (RCO-3022PP) 106.65 x 174 mm (FHHL)

Operating System

Windows	Windows 10, Windows 8.1, WES8.1, Windows 7, WES7
Linux	Linux kernel 3.X

Power

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

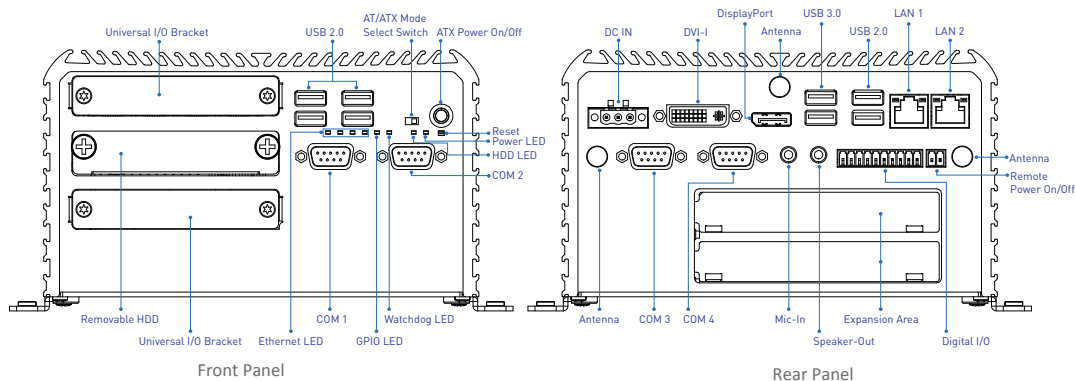
Environment

Operating Temp.	-40 °C to 70 °C (-40 °F to 158 °F)
Storage Temp.	-40 °C to 85 °C (-40 °F to 185 °F)
Relative Humidity	10% to 95% (non-condensing)
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: 50 G, half sine, 11ms
Certification	CE, FCC Class A

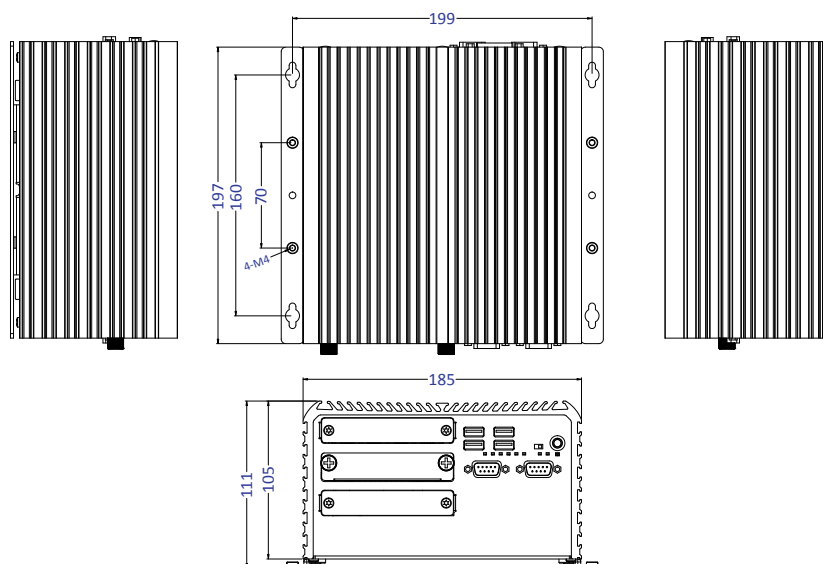
Physical

Construction	Extruded Aluminum with Heavy Duty Metal
Dimension (W x D x H)	185 x 197 x 105 mm 7.3" x 7.6" x 4.1"
Weight	2.87 kg (6.31 lb)
Mounting	Wall Mount DIN-Rail Mount (Optional)
Packing List	1x RCO-3022xx Rugged Fanless System 1x Wall-mount Bracket 1x DVI to VGA Adapter

I/O LAYOUT



DIMENSION



Unit: mm

ORDERING INFO

Part No.	Description
RCO-3022EE-5350U	Rugged fanless embedded system with Intel® i5-5350U processor, 2x PCIe x4
RCO-3022EE-5010U	Rugged fanless embedded system with Intel® i3-5010U processor, 2x PCIe x4
RCO-3022EE-3765U	Rugged fanless embedded system with Intel® Celeron® 3765U processor, 2x PCIe x4
RCO-3022PP-5350U	Rugged fanless embedded system with Intel® i5-5350U processor, 2x PCI
RCO-3022PP-5010U	Rugged fanless embedded system with Intel® i3-5010U processor, 2x PCI
RCO-3022PP-3765U	Rugged fanless embedded system with Intel® Celeron® 3765U processor, 2x PCI

OPTIONAL ACCESSORIES

Part No.	Description
RG3-GBE4RJ	4-port GbE cableless module 4x RJ-45
RG3-GBE4PJ	4-port PoE GbE cableless module 4x RJ-45
RG3-GBE4RM	4-port GbE cableless module 4x M12
RG3-GBE4PM	4-port PoE GbE cableless module 4x M12
1-E09A06002	Adapter AC/DC 12V 5A 60W with 3-pin Terminal Block Plug 5.0-mm Pitch
1-E09A12001	Adapter AC/DC 24V 5A 120W with 3-pin Terminal Block Plug 5.0-mm Pitch
1-E09A22001	Adapter AC/DC 24V 9.2A 220W with 3-pin Terminal Block Plug 5.0-mm Pitch

