

RCO-3022PP series

Advanced fanless embedded system with 5th Gen Intel® Broadwell Core™ i5/i3 or Celeron® processor, 2x LAN, 2x PCI Expansion



FEATURES

- Intel® Core™ processor i5-5350U, up to 2.9GHz / i3-5010U, 2.1GHz or Celeron® 3765U, 1.9GHz
- 1x 204-pin DDR3L SODIMM. max up to 8GB
- Triple independent display supported by 1x DVI-I and 1x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x 2.5" SATA HDD bay and 2x mSATA supporting RAID 0, 1, 5, 10
- 2x full-size mini PCIe for communication or expansion modules, 2x SIM socket
- 2x universal bracket (for mini PCIe application)
- 2x PCI expansion
- 4x RS-232/422/485, 2x USB 3.0, 6x USB 2.0
- 4x DI + 4x DO with isolation
- 9 to 48VDC wide range power 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)
GbE3-GbE6: Intel® I210-AT (Optional)

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 PCI Express)

SIM Socket 2x External SIM socket

Expansion

Mini PCI Express 2x Full-size Mini PCIe

PCI 2x PCI

4-Port GbE (Optional) Up to one 4-port GbE module with Intel® I210-AT Chipset
RJ-45 or M12 connector with PoE option
One universal I/O slot occupied for one 4-port module

Card Dimension 175 (L) x 112 (H) mm

Operating System

Windows Windows 10, Windows 8.1, WES8.1, Windows 7, WES7

Linux Linux kernel 3.X

I/O

COM 4x RS-232/422/485

USB 2x USB 3.0, 6x USB 2.0

LAN 2x RJ45

Audio 1x Mic-in, 1x Speaker-out

DIO 4 in / 4 out (Isolated)

Universal I/O Bracket 2x Universal I/O Bracket
(By mini PCIe interface)

Others 3x WiFi Antenna Holes
1x Power Switch, 1x AT/ATX Switch,
1x Remote Power On/Off

Power

Power Mode AT, ATX

Power Supply Voltage 9~48VDC

Power Connector 3-pin Terminal Block

Power Adaptor Optional AC/DC 12V/5A, 60W
Optional AC/DC 24V/9.2A, 220W

Power Protection OVP (Over Voltage Protection)
OCP (Over Current Protection)
Reverse Protection

Environment

Operating Temp. -40°C to 70°C

Storage Temp. -40°C to 85°C

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: 50G, half sine, 11ms

Standards / Certification CE, FCC Class A

Physical

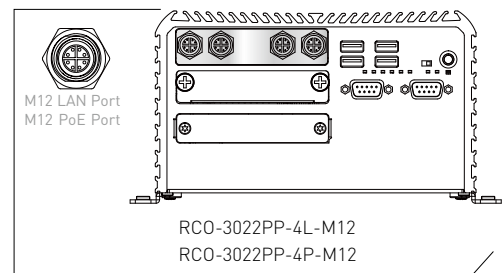
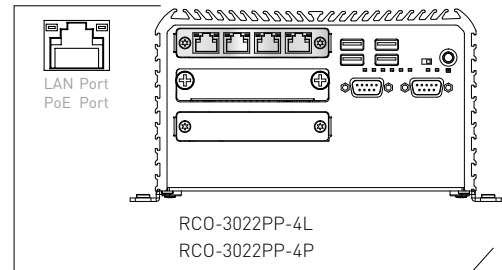
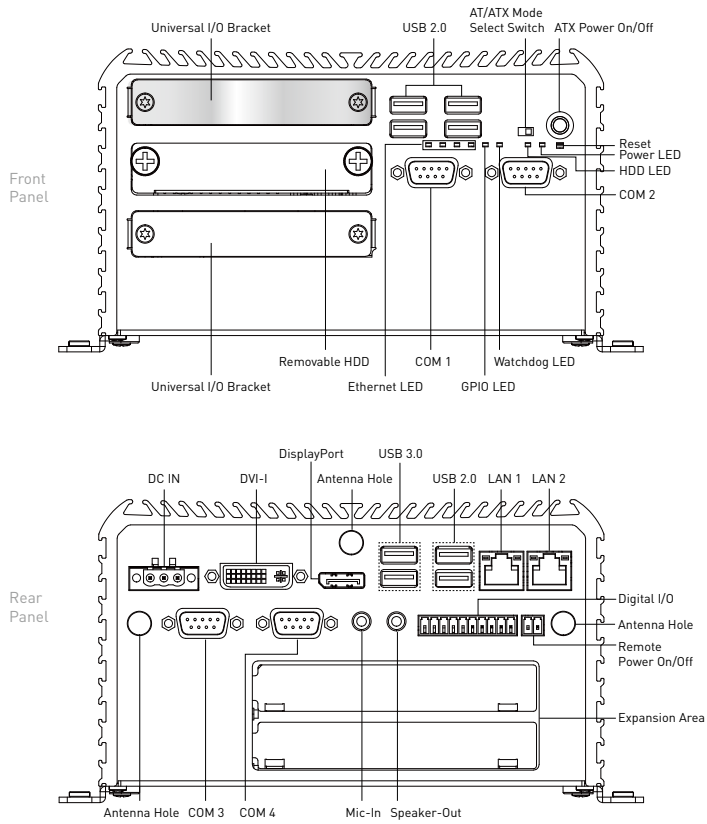
Construction Extruded Aluminum with Heavy Duty Metal

Dimension 185 (W) x 197 (D) x 105(H) mm

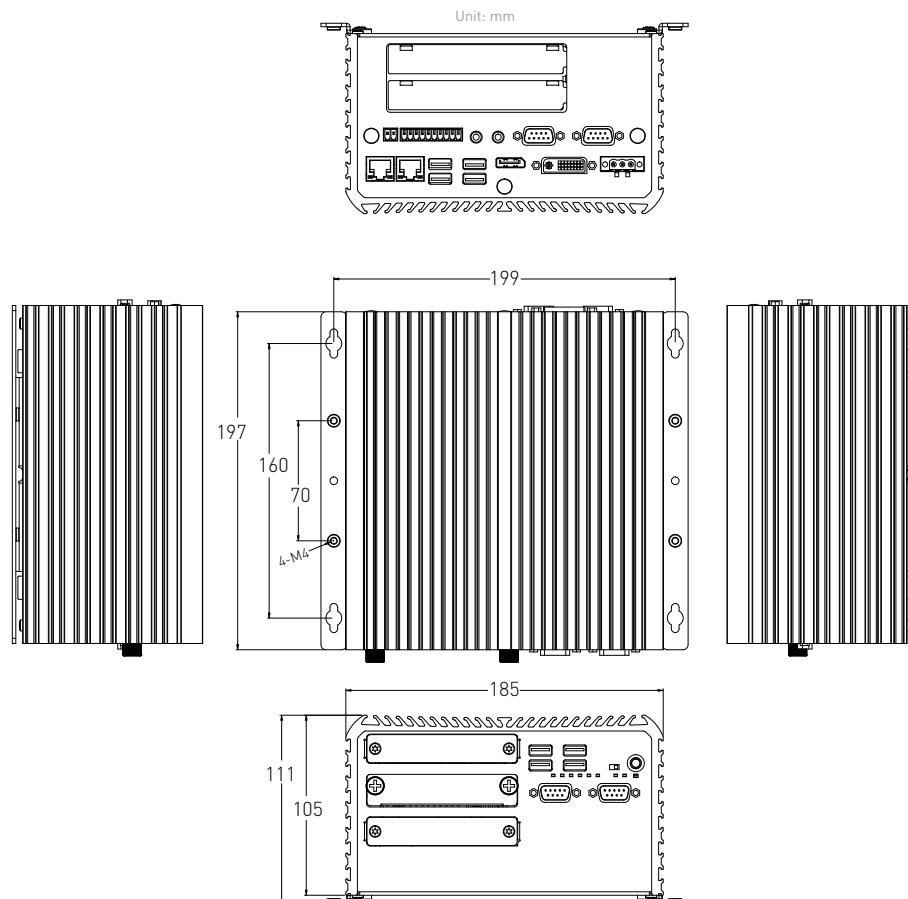
Weight 2.87 ~ 3.25 kg

Mounting Wall Mounting

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION



ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A06007	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-E09A22102	Adapter AC/DC 24V 9.2A 220W with 3pin Terminal Block Plug 5.0mm Pitch
SFICBL022	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

PACKING LIST

- 1x RCO-3000 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

AVAILABLE MODELS

MODEL NO.	DESCRIPTION
RCO-3022PP-5350U	Advanced fanless embedded system with Intel® i5-5350U processor, 2x LAN, 2x PCI Expansion
RCO-3022PP-5010U	Advanced fanless embedded system with Intel® i3-5010U processor, 2x LAN, 2x PCI Expansion
RCO-3022PP-3765U	Advanced fanless embedded system with Intel® Celeron® 3765U processor, 2x LAN, 2x PCI Expansion
RCO-3022PP-4L-5350U	Advanced fanless embedded system with Intel® i5-5350U processor, 6x LAN, 2x PCI Expansion
RCO-3022PP-4L-5010U	Advanced fanless embedded system with Intel® i3-5010U processor, 6x LAN, 2x PCI Expansion
RCO-3022PP-4L-3765U	Advanced fanless embedded system with Intel® Celeron® 3765U processor, 6x LAN, 2x PCI Expansion
RCO-3022PP-4L-M12-5350U	Advanced fanless embedded system with Intel® i5-5350U processor, 2x LAN, 4x M12 LAN, 2x PCI Expansion
RCO-3022PP-4L-M12-5010U	Advanced fanless embedded system with Intel® i3-5010U processor, 2x LAN, 4x M12 LAN, 2x PCI Expansion
RCO-3022PP-4L-M12-3765U	Advanced fanless embedded system with Intel® Celeron® 3765U processor, 2x LAN, 4x M12 LAN, 2x PCI Expansion
RCO-3022PP-4P-5350U	Advanced fanless embedded system with Intel® i5-5350U processor, 2x LAN, 4x PoE, 2x PCI Expansion
RCO-3022PP-4P-5010U	Advanced fanless embedded system with Intel® i3-5010U processor, 2x LAN, 4x PoE, 2x PCI Expansion
RCO-3022PP-4P-3765U	Advanced fanless embedded system with Intel® Celeron® 3765U processor, 2x LAN, 4x PoE, 2x PCI Expansion
RCO-3022PP-4P-M12-5350U	Advanced fanless embedded system with Intel® i5-5350U processor, 2x LAN, 4x M12 PoE, 2x PCI Expansion
RCO-3022PP-4P-M12-5010U	Advanced fanless embedded system with Intel® i3-5010U processor, 2x LAN, 4x M12 PoE, 2x PCI Expansion
RCO-3022PP-4P-M12-3765U	Advanced fanless embedded system with Intel® Celeron® 3765U processor, 2x LAN, 4x M12 PoE, 2x PCI Expansion