



FEATURES

- LGA 1151 socket for 8th/9th Gen. Intel® CFL-R S Processor (65W/35W TDP)
- Intel® Q370 chipset
- 2x DDR4 2400/2666Hz SODIMM. Max. up to 64GB
- Triple Independent Display by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size mini PCIe for communication or expansion modules, 2x SIM socket
- 4x 2.5" SATA HDD Bay and 1x mSATA with RAID 0, 1, 5, 10 support
- 1x M.2 (M Key, NVMe PCIe x4, 2280); 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
- 6x RS-232/422/485 (w/ 2x internal), 4x USB 3.2 Gen 2, 5x USB 3.2 Gen 1
- 8x DI + 8x DO with isolation
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -25°C to 70°C (35W CPU);
-25°C to 60°C (65W CPU)
- TPM 2.0 Supported

SPECIFICATIONS

System

Processor

Support 8th/9th Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)

- Intel® Core™ i7-9700E, 8 Cores, 12MB cache, up to 4.4 GHz
- Intel® Core™ i5-9500E, 6 Cores, 9MB Cache, up to 4.2 GHz
- Intel® Core™ i3-9100E, 4 Core, 6MB Cache, 3.7 GHz
- Intel® Core™ i7-9700TE, 8 Cores, 12MB cache, up to 3.8 GHz
- Intel® Core™ i5-9500TE, 6 Cores, 9MB Cache, up to 3.6 GHz
- Intel® Core™ i3-9100TE, 4 Core, 6MB Cache, 3.2 GHz
- Intel® Core™ i7-8700T, 6 Cores, 12MB cache, up to 4.0 GHz
- Intel® Core™ i5-8500T, 6 Cores, 9MB Cache, up to 3.5 GHz
- Intel® Core™ i3-8100T, 4 Cores, 6MB Cache, 3.1 GHz
- Intel® Pentium® G5400T, 2 Cores, 4MB Cache, up to 3.1 GHz
- Intel® Celeron® G4900T, 2 Cores, 2MB Cache, up to 2.9 GHz

System Chipset Intel® Q370 Express Chipset

LAN Chipset GbE1: Intel I219LM (Support Wake-on-LAN and PXE)
GbE2: Intel I210-AT (Support Wake-on-LAN and PXE)
GbE3-GbE6: Intel I350-AM4 (Optional)
10 GbE1-GbE2: Intel X710-AT2 (Optional)

Audio Codec Realtek ALC888S

System Memory 2x 260-Pin DDR4 2400/2666MHz SODIMM.
Max. up to 64GB (Un-buffered and Non-ECC)

BIOS AMI 256Mbit SPI BIOS

Watchdog Software Programmable Supports 1~255 sec. System Reset

TPM TPM 2.0

Display

Graphics Intel® UHD Graphics 610/630

VGA Yes (by optional split cable)

DVI 1x DVI-I, support resolution 1920 x 1200

DisplayPort 2x DisplayPort, support resolution 4096 x 2304

Multiple Display Triple Display

Storage

SSD/HDD 2x Internal 2.5" SATA HDD Bay (support H=9mm)
2x Removable 2.5" SATA HDD Bay
(support H=7mm, hot-swappable) , Support RAID 0, 1, 5, 10

mSATA 1x mSATA (Shared by 1x Mini PCI Express)

M.2 1x M.2 (M Key, NVMe PCIe x4, 2280)
1x M.2 (E Key, PCIe x2, USB 2.0, 2230)

SIM Socket 2x External SIM socket

Expansion

Mini PCI Express 2x Full-size Mini PCIe (1x shared by 1x mSATA)

4-Port GbE (Optional) Up to two 4-port GbE module with Intel® I350-AT4 Chipset
RJ-45 or M12 connector with PoE option
One Universal I/O Slot occupied for one 4-port module

2-Port GbE (Optional) Up to 2-Port RJ45 10GbE with Intel X710-AT2 Chipset
One Universal I/O occupied for one 2-port module

Operating System

Windows Windows 10

Linux Linux kernel

I/O

COM 4x RS-232/422/485 ; 2x RS-232/422/485 (internal)

USB 4x USB 3.2 Gen 2 (10 Gbps)
5x USB 3.2 Gen 1 (5 Gbps)
2x USB2.0 header (internal)

LAN 2x RJ45

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

DIO 8 in / 8 out (Isolated)

Universal I/O Bracket 1x Universal I/O Bracket (By mini PCIe interface)

Others 5x WiFi Antenna Holes
1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off
1x PC/Car Mode Switch, 1x Delay Time Switch
1x Removable CMOS Battery

Power

Power Mode AT, ATX

Power Supply Voltage 9~48VDC

Power Ignition Sensing Power Ignition Management

Power Connector 3-pin Terminal Block
4-pin 12V DC input as optional

Power Adaptor Optional AC/DC 24V/9.2A, 220W
Optional AC/DC 24V/5A, 120W

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

Environment

Operating Temp. -25°C to 70°C (35W CPU) ; -25°C to 60°C (65W CPU)

Storage Temp. -30°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

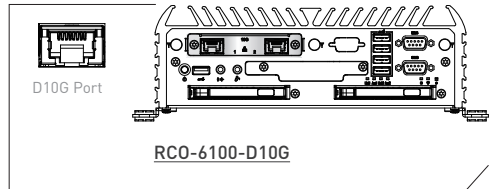
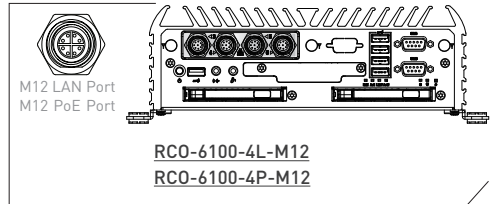
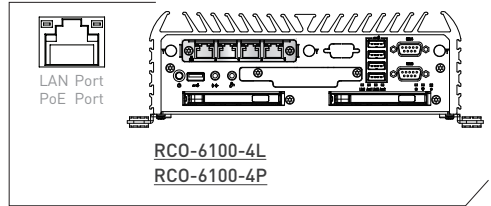
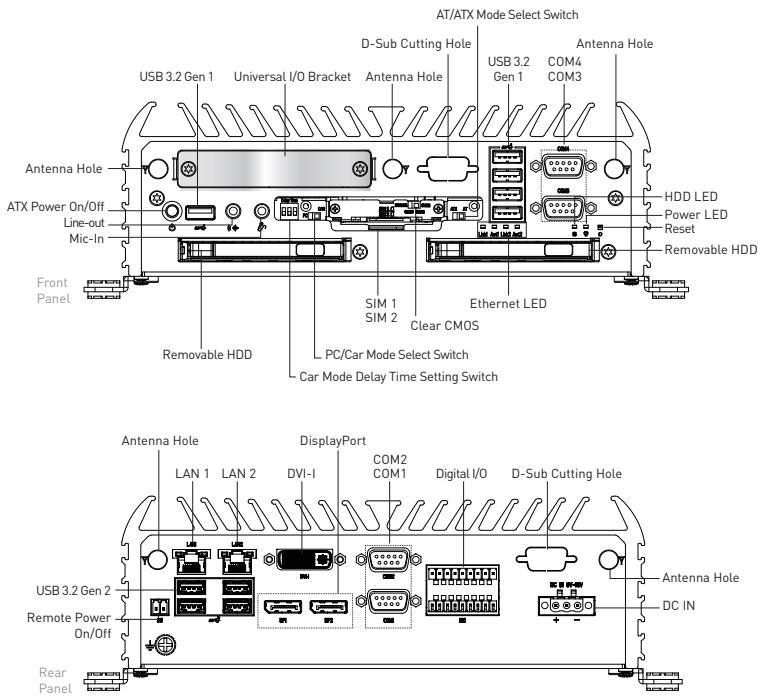
Construction Extruded Aluminum with Heavy Duty Metal

Dimension 240 (W) x 261 (D) x 79.2 (H) mm

Weight TBD

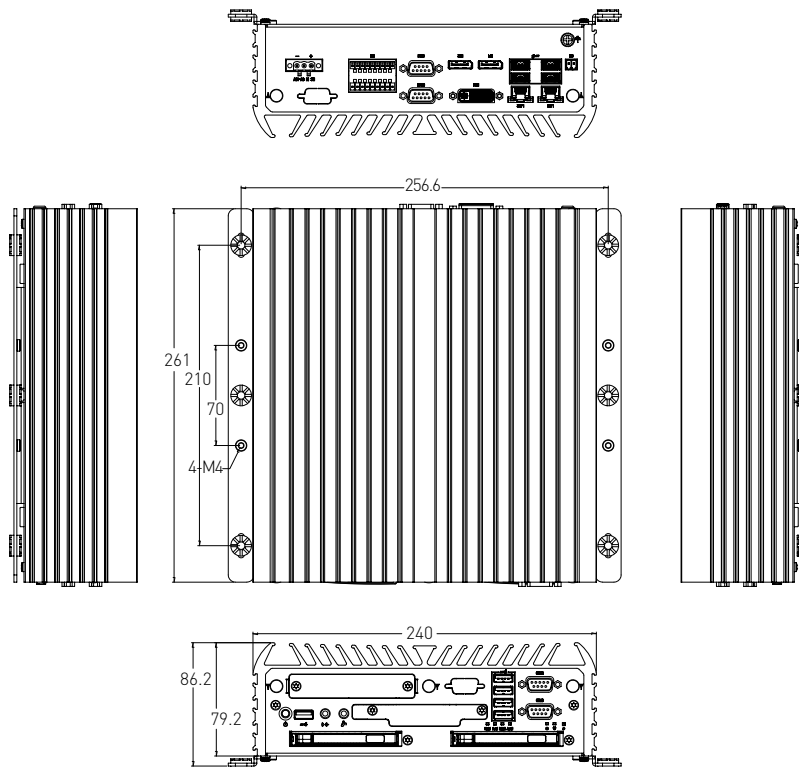
Mounting Wall Mounting

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm



ORDERING INFORMATION

MODEL NO.	DESCRIPTION
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, 180cm
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

PACKING LIST

- 1x RCO-6100 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-6100	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 2x LAN
RCO-6100-4L	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 6x LAN
RCO-6100-4L-M12	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 2x LAN, 4x M12 LAN
RCO-6100-4P	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 2x LAN, 4x PoE
RCO-6100-4P-M12	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 2x LAN, 4x M12 PoE
RCO-6100-D10G	Superior Fanless Embedded System w/ LGA 1151 for Intel® 8 th /9 th Gen CPU & Q370 PCH, 2x LAN, 2x 10G LAN

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