

RCO-6022EE

Superior fanless embedded system with LGA 1151 for Intel® 6th/7th Gen Processor and Q170 PCH, 2x LAN, 2x PCIe x8 Expansion

FEATURES

- LGA 1151 socket for 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Intel® Q170 Chipset
- 2x 260-pin DDR4 SODIMM. Max up to 32GB
- Triple independent display supported by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 4x 2.5" SATA HDD bay and 2x mSATA supporting RAID 0, 1, 5, 10
- 4x Full-size mini PCIe for communication or expansion modules, 4x SIM socket
- 2x PCIe x8, 2x Universal Bracket (For mini PCIe application)
- 4x RS-232/422/485 (w/ 2x internal), 6x USB 3.0, 2x USB 2.0, TPM 2.0
- 8x DI + 8x DO with Isolation
- 9 to 48VDC wide range power input supporting AT/ATX mode
- -25°C to 70°C extended operating temperature



SPECIFICATIONS

SYSTEM

Processor
Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)

- 7th Gen Intel® Core™ i7-7700T, Quad Core, 8MB cache, up to 3.8 GHz
- 7th Gen Intel® Core™ i5-7500T, Quad Core, 6MB cache, up to 3.3 GHz
- 7th Gen Intel® Core™ i3-7101TE, Dual Core, 3MB Cache, 3.4 GHz
- 6th Gen Intel® Core™ i7-6700TE, Quad Core, 8MB Cache, up to 3.4 GHz
- 6th Gen Intel® Core™ i5-6500TE, Quad Core, 6MB Cache, up to 3.3 GHz
- 6th Gen Intel® Core™ i3-6100TE, Dual Core, 4MB Cache, 2.7 GHz
- Intel® Pentium® G4400TE, Dual Core, 3MB Cache, 2.4 GHz
- Intel® Celeron® G3900TE, Dual Core, 2MB Cache, 2.3 GHz

| | |
|----------------|---|
| System Chipset | Intel® Q170 Express Chipset |
| LAN Chipset | GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) GbE2: Intel® I219LM (Support Wake-on-LAN and PXE) |
| Audio Codec | Realtek ALC888S |
| System Memory | 2x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 32GB |
| BIOS | AMI 128Mbit SPI BIOS |
| Watchdog | Software Programmable Supports 1~255 sec. System Reset |
| TPM | TPM 2.0 |

DISPLAY

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|------------------|-------------------------------|
| VGA | Yes (by optional split cable) |
| DVI | 1x DVI-I |
| DisplayPort | 2x DisplayPort |
| Multiple Display | Triple Display |

STORAGE

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|------------|---|
| SSD/HDD | 2x Internal 2.5" SATA HDD Bay 2x 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 2x Internal SIM socket |

EXPANSION

| | |
|------------------|------------------------|
| Mini PCI Express | 4x Full-size Mini PCIe |
| PCI Express | 2x PCIe x8 |

I/O

| | |
|-----------------------|---|
| COM | 2x RS-232/422/485 2x RS-232/422/485 (internal) |
| USB | 6x USB 3.0, 2x USB 2.0 |
| LAN | 2x GbE RJ45 |
| Audio | 1x Mic-in, 1x Speaker-out |
| DIO | 8 in / 8 out (Isolated) |
| Universal I/O Bracket | 2x Universal I/O Bracket (For mini PCIe application) |
| Others | 6x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off |

OPERATING SYSTEM

| | |
|---------|---|
| Windows | 6 th Gen CPU: Windows 10, Windows 7, WES7 7 th Gen CPU: Windows 10 |
| Linux | Linux kernel 4.X |

POWER

| | |
|----------------------|--|
| Power Mode | AT, ATX |
| Power Supply Voltage | 9~48VDC |
| Power Connector | 3-pin Terminal Block |
| Power Adaptor | 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 |
| 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 |

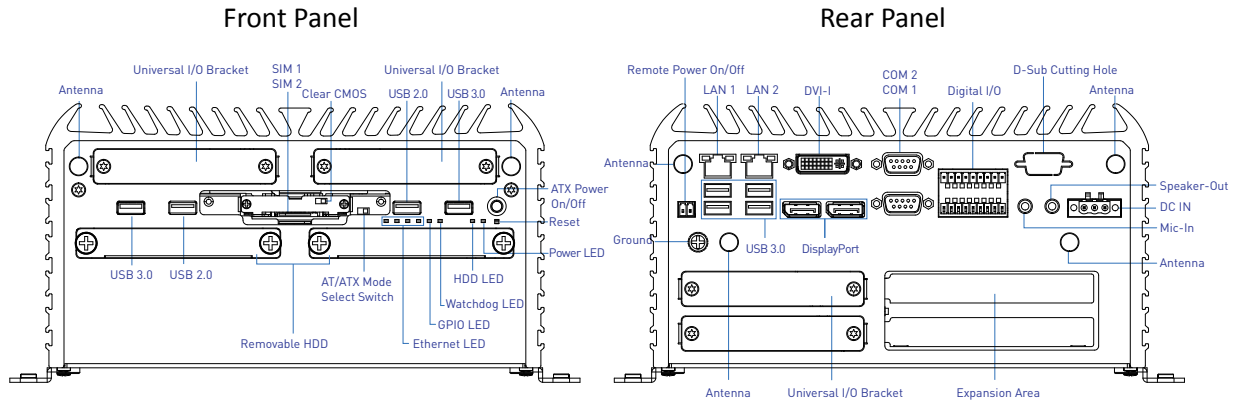
PHYSICAL

| | |
|--------------|---|
| Construction | Extruded Aluminum with Heavy Duty Metal |
| Dimension | 240 (W) x 261 (D) x 127 (H) mm |
| Weight | 5.54 kg |
| Mounting | Wall Mounting |

* For detailed performance specification, please refer to the data sheet or consult with the technical team.

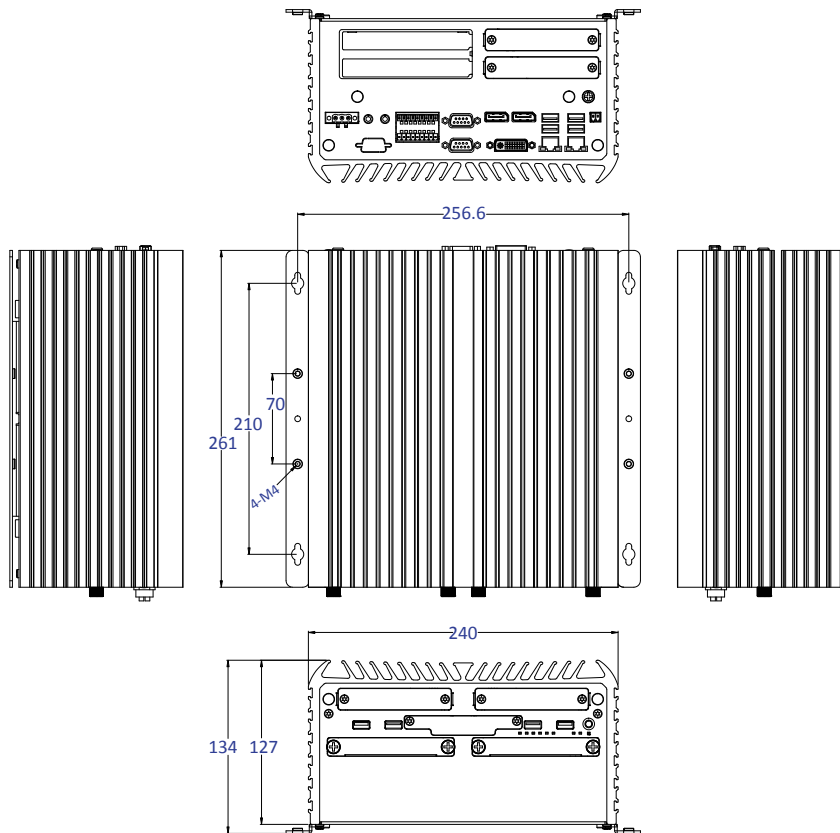
† The environmental specification covers the bare bone systems and does not include other components environmental specification.

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm



AVAILABLE MODELS

| MODEL NO. | DESCRIPTION |
|------------|---|
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OPTIONAL ACCESSORIES

| MODEL NO. | DESCRIPTION |
|-------------|---|
| 1-E09A12002 | Adapter AC/DC 24V 5A 120W 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-6000 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

