



Industrial Computer

RCO-6000-KBL-2

Industrial Computer with 6th/7th Gen Intel® Core™ Processor, 2x Expansion Slots



Features

- LGA 1151 socket for 6th/7th Gen. Intel® Core™ i7/i5/i3 Processor
- Intel® Q170 Chipset
- 2x 260-pin DDR4 SO-DIMM, up to 32GB
- Triple independent display
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 4x 2.5" SATA HDD bay and 2x mSATA supporting
- 4x Full-size mini PCIe for communication or expansion modules, 4x SIM socket
- 2x PCIe x8 (RCO-6000-KBL-2E), 2x PCI (RCO-6000-KBL-2I), or 1x PCIe x16/1x PCI (RCO-6000-KBL-2C)
- 4x RS-232/422/485, 6x USB 3.0, 2x USB 2.0
- 16-bit Isolated digital I/O
- 9 to 48 VDC wide range power input
- -25 °C to 70 °C extended operating temperature
- TPM 2.0 Support

Specifications

| System | |
|------------------|--|
| Processor | Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151) |
| | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) • GbE2: Intel® I219LM (Support Wake-on-LAN and PXE) • GbE3~GbE10: Intel® I210-AT |
| 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 | |
| Display Port | 2x DP |
| DVI | 1x DVI-I |
| Multiple Display | Triple Display |
| Storage | |
| mSATA | 2x mSATA (shared by 2x Mini PCIe) |
| SIM Socket | 2x External SIM socket 2x Internal SIM Socket |
| SSD/HDD | 2x Internal 2.5" SATA HDD Bay 2x Hotswap 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10 |
| Expansion | |
| Mini PCIe | 4x Full-size Mini PCIe |
| PCI | 2x PCI (2I-Model) 1x PCI (2C-Model) |
| PCIe | 2x PCIe x8 (2E-Model) 1x PCIe x16 (2C-Model) |
| I/O | |
| Audio | 1x Mic-in, 1x Line-out |
| COM | 2x RS-232/422/485 2x RS-232/422/485 (internal) |
| DIO | 8 in / 8 out (Isolated) |
| LAN | 2x GbE RJ45 (Base Model) 4x GbE RJ45 (Module) 4x GbE M12 (Module) 8x GbE RJ45 (Module) 8x GbE M12 (Module) |
| PoE | 4x IEEE 802.3at (25.5W) GbE RJ45 (Module) 4x IEEE 802.3at (25.5W) GbE M12 (Module) 8x IEEE 802.3at (25.5W) GbE RJ45 (Module) 8x IEEE 802.3at (25.5W) GbE M12 (Module) |

| | |
|-----------------------|---|
| Universal I/O Bracket | 2x Universal I/O Bracket (Base Model) 1x Universal I/O Bracket (with 4x LAN Or PoE Module) |
| USB | 6x USB 3.0, 2x USB 2.0 |
| Others | 6x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off |

Operating System

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

Power

| | |
|----------------------|---|
| Power Adapter | Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A, 220W (PoE Module) |
| Power Management | ACPI 5.0a compliant |
| Power Mode | AT/ATX selectable |
| Power Supply Voltage | 9 ~ 48 VDC |
| Power Connector | 3-pin Terminal Block |
| Power Protection | Over-Voltage Protection (OVP) Over-Current Protection (OCP) Reverse Polarity Protection (RPP) |

Environment

| | |
|-----------------------|--|
| Operating Temperature | -25 °C ~ 70 °C (-13 °F ~ 158 °F) |
| Storage Temperature | -22°F ~ 185°F (-30°C ~ 85°C) |
| Relative Humidity | 10% to 95% (non-condensing) |
| Certification | CE, FCC Class A |
| 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 |

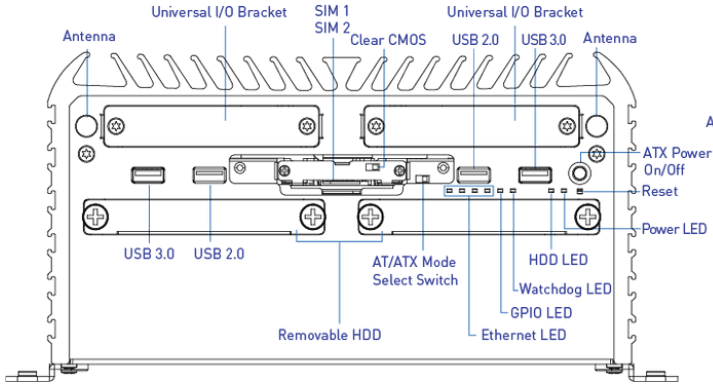
Physical

| | |
|------------------|--|
| Dimensions | 9.5" x 10.3" x 5.0" (240 x 261 x 127 mm) |
| Weights | 5.54kg - 5.60kg |
| Construction | Extruded aluminum with heavy duty metal |
| Mounting Options | Wall /DIN-Rail mounting kits (optional) |

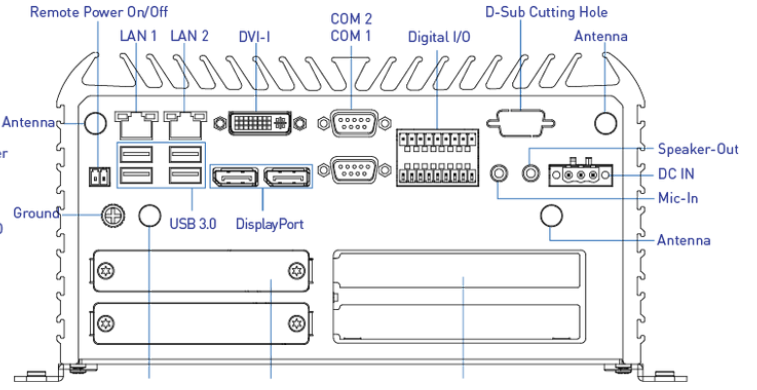
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout

Front Panel

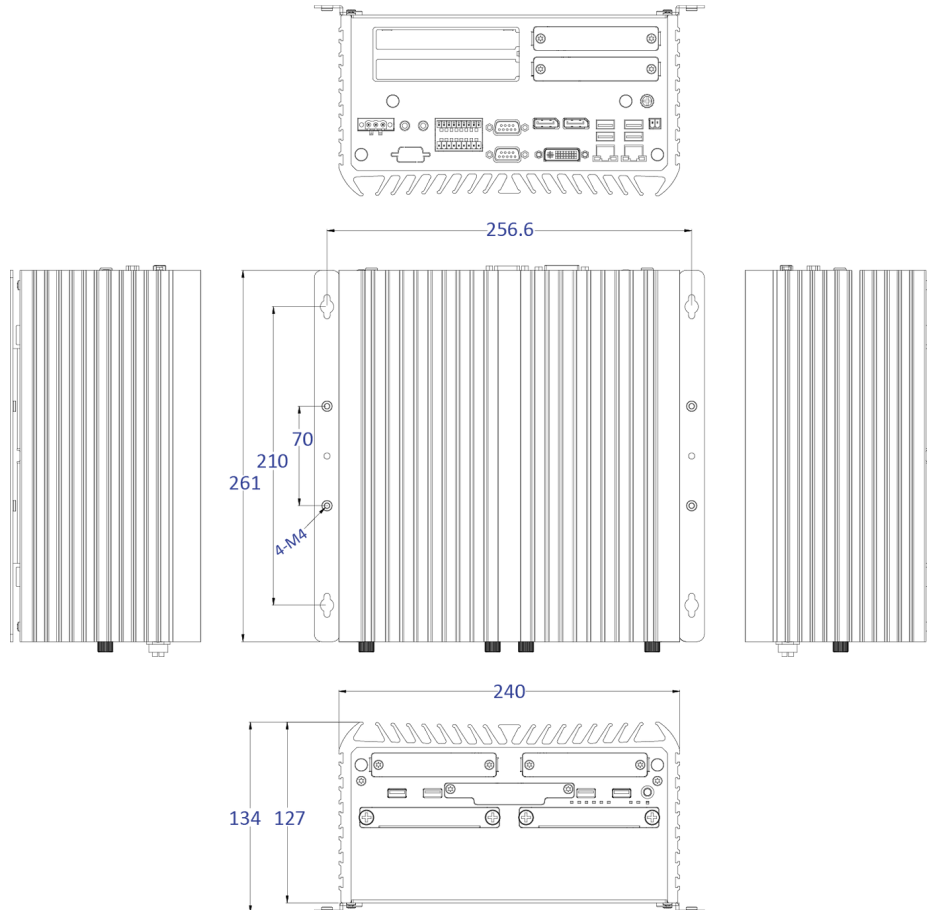


Rear Panel



Dimension

Unit: mm



Available Models

| Model No. | Description |
|-------------------|--|
| RCO-6000-KBL-2C-P | Industrial Computer with 6th/7th Gen Intel® Core™ Processor, 1x PCIe x16, 1x PCI |
| RCO-6000-KBL-2E-P | Industrial Computer with 6th/7th Gen Intel® Core™ Processor, 2x PCIe x8 |
| RCO-6000-KBL-2I-P | Industrial Computer with 6th/7th Gen Intel® Core™ Processor, 2x PCI |

Optional Accessories

| Model No. | Description |
|-------------|---|
| 1-E09A22801 | Adapter AC/DC 24V/11.67A 280W 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 |
| 999930 | 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-CFL-8NS
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit

Exports And Tariff Codes

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|------------|--------------|
| ECCN | 5A992.c |
| HTS | 8471.50.0150 |
| Schedule B | 84.71 |