



INDUSTRIAL COMPUTER

RCO-6000-KBL-1

Industrial Computer with 6th/7th Gen Intel® Core™ Processor, 1x Expansion Slot



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
- 1x PCIe x16 (RCO-6000-KBL-1E) or 1x PCI (RCO-6000-KBL-1I)
- 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

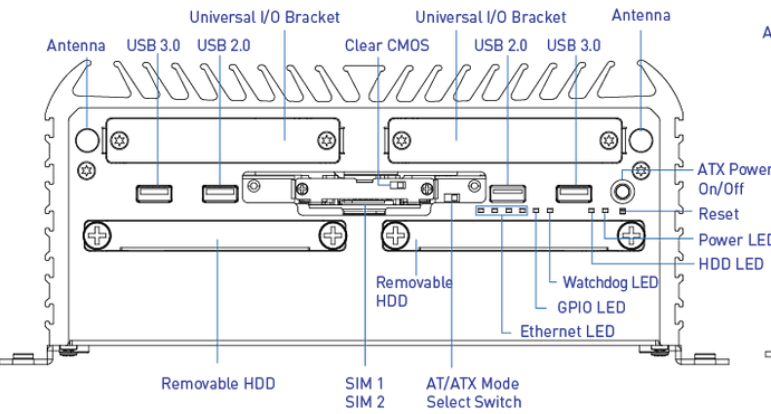
Specifications

System	
Processor	• Support 6th & 7th Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151) • 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) • 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	1x PCI (1I-Model)
PCIe	1x PCIe x16 (1E-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

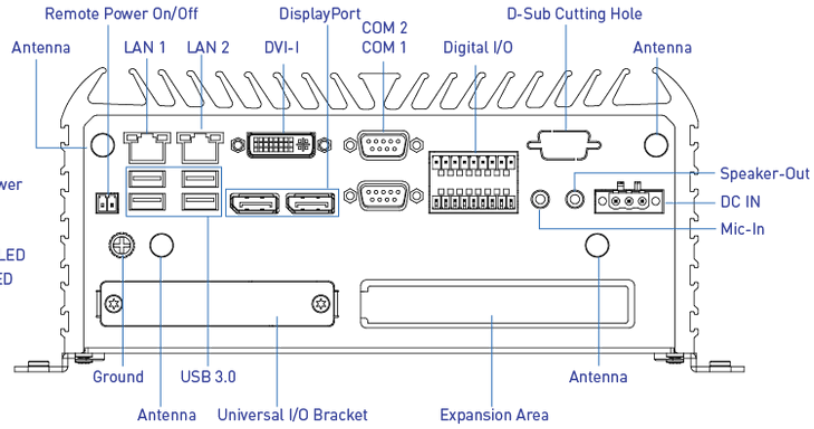
Power	
Power Adapter	Optional AC/DC 24V/5A, 120W Optional AC/DC 24V/9.2A, 220W (PoE Module)
Power Management	ACPI 5.0a compliant
Power Mode	AT/ATX selectable
Power Supply Voltage	9 ~ 48 VDC
Power Connector	3-pin Terminal Block
Power Protection	Over-Voltage Protection (OVP) Over-Current Protection (OCP) 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 4.2" (240 x 261 x 107 mm)
Weights	5.38kg - 5.87kg
Construction	Extruded aluminum with heavy duty metal
Mounting Options	Wall /DIN-Rail mounting kits (optional)

External I/O Mechanical Layout

Front Panel

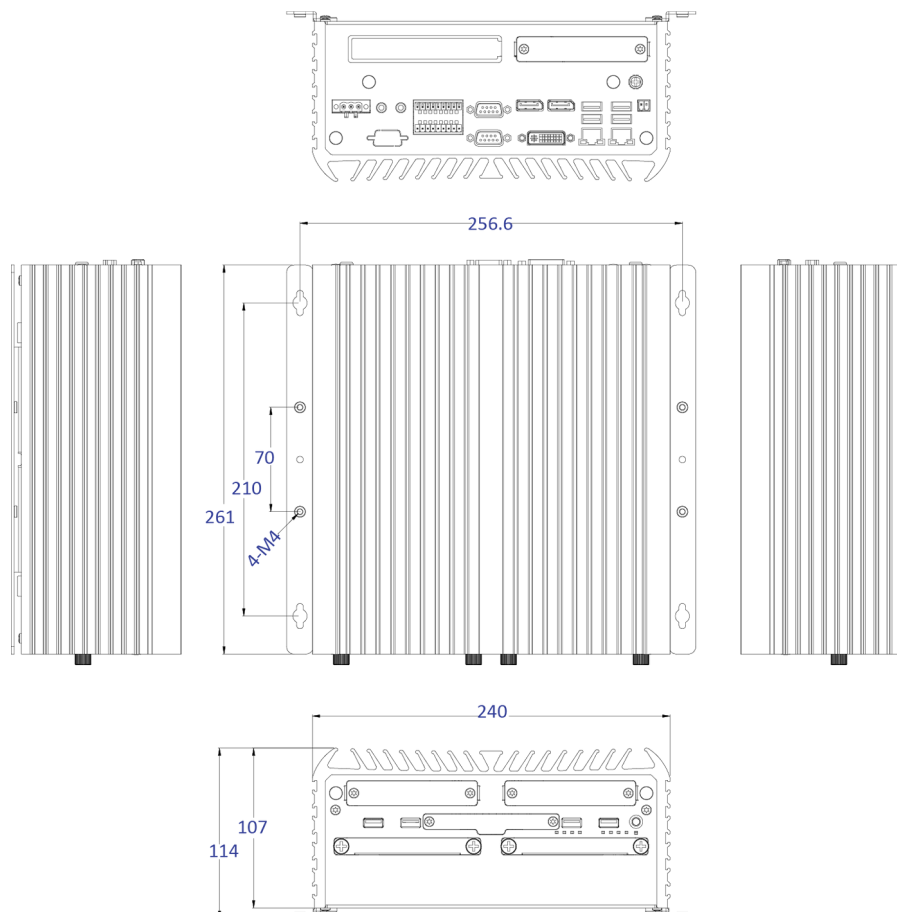


Rear Panel



Dimension

Unit: mm



Compliances and Standards

Shock	with SSD: 50G, half sine, 11ms IEC60068-2-27:2008 Designed to comply with MIL-STD-810H Method 516.8 Procedure I
Vibration	with SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis IEC60068-2-64:2008 Designed to comply with MIL-STD-810H Method 514.8 Procedure I
Operating Temperature	-25 °C ~ 70 °C (-13 °F ~ 158 °F) IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	- FCC Class A (47 CFR part 15.109 and part 15.107) - CE - ICES-003 - UKCA

Available Models

Model No.	Description
RCO-6000-KBL-1E-P	Industrial Computer with 6th/7th Gen Intel® Core™ Processors, 1x PCIe x16, w/ Power Adapter
RCO-6000-KBL-1I-P	Industrial Computer with 6th/7th Gen Intel® Core™ Processors, 1x PCI, w/ Power Adapter

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-KBL
- 1x Utility DVD Driver
- 1x Wall Mount Kit

US Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
ScheduleB	84.71

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