



FANLESS EMBEDDED SYSTEMS

RCO-6022EE series

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 expansion
- 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)
GbE3-GbE10: Intel® I210-AT (Optional)

Audio Codec Realtek ALC885

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

DVI 1x DVI-I

DisplayPort 2x DisplayPort

Multiple Display Triple Display

Storage

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

4-Port GbE (Optional) Up to two 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 235 (L) x 112 (H) mm

Operating System

Windows 6th Gen CPU: Windows 10, Windows 7, WES7
7th Gen CPU: Windows 10

Linux Linux kernel 4.X

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 RJ45

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

DIO 8 in / 8 out (Isolated)

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

Others 6x 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 24V/5A, 120W
Optional AC/DC 24V/9.2A, 220W

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

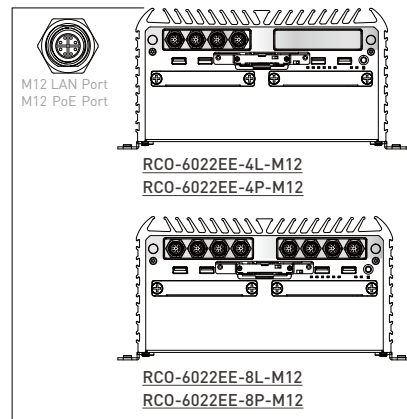
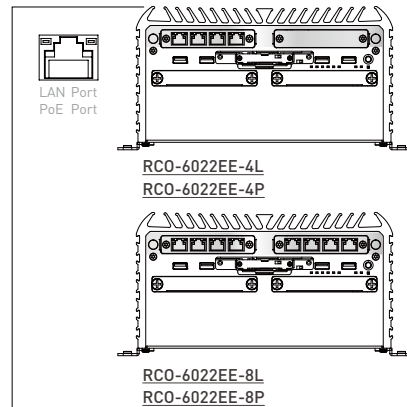
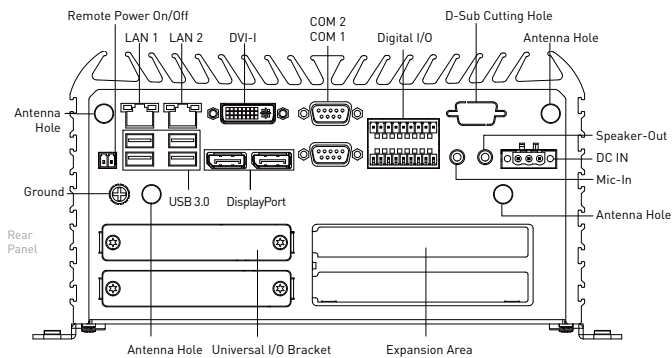
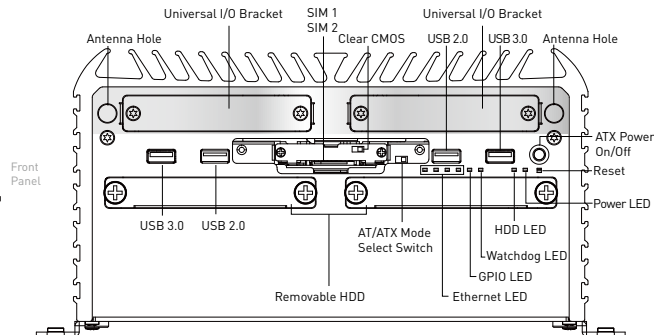
Weight 5.54 - 6.58 kg

Mounting Wall Mounting

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

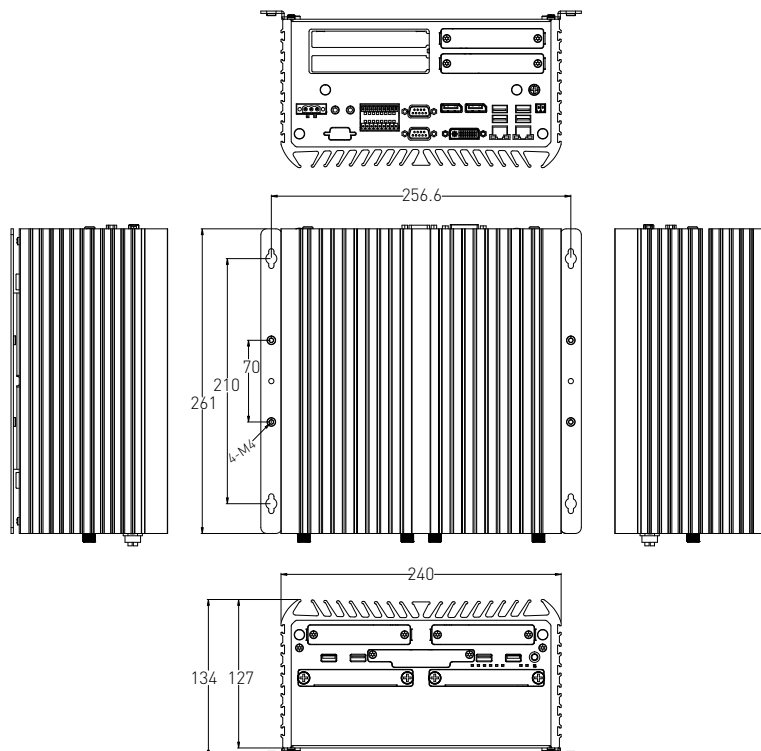
RCO-6022EE series

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm





RCO-6022EE series

ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A12002	Adapter AC/DC 24V 5A 120W 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
1-TPCD00005	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-6000 Series Embedded System
- 1x Wall Mount Kit
- 1x Accessory Kit

AVAILABLE MODELS

MODEL NO.	DESCRIPTION
RCO-6022EE	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 2x PCIe x8 Expansion
RCO-6022EE-4L	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 6x LAN, 2x PCIe x8 Expansion
RCO-6022EE-4L-M12	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 4x M12 LAN, 2x PCIe x8 Expansion
RCO-6022EE-8L	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 10x LAN, 2x PCIe x8 Expansion
RCO-6022EE-8L-M12	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 8x M12 LAN, 2x PCIe x8 Expansion
RCO-6022EE-4P	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 4x PoE, 2x PCIe x8 Expansion
RCO-6022EE-4P-M12	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 4x M12 PoE, 2x PCIe x8 Expansion
RCO-6022EE-8P	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 8x PoE, 2x PCIe x8 Expansion
RCO-6022EE-8P-M12	Superior fanless embedded system with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x LAN, 8x M12 PoE, 2x PCIe x8 Expansion



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Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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