

# RCO-6020-1050Ti



GPU Computing System with LGA 1151 for Intel® 6<sup>th</sup>/7<sup>th</sup> Gen Processor and Q170 PCH, GTX 1050Ti Integrated

## FEATURES

- Support 6<sup>th</sup> & 7<sup>th</sup> Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)
- Intel® Q170 chipset
- NVIDIA GeForce® GTX 1050 Ti Graphics engine based on NVIDIA Pascal™ GPU architecture
- 2x 260-pin DDR4 SODIMM. max up to 32GB
- 6x display interface supported by 2x DVI-I, 3x DisplayPort, 1x HDMI
- 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
- 4x RS-232/422/485 (w/ 2x internal), 6x USB 3.0, 2x USB 2.0, TPM 1.2
- 8x DI + 8x DO with isolation
- 9 to 48VDC wide range power input supporting AT/ATX mode
- -25°C to 60°C extended operating temperature



## SPECIFICATIONS

### SYSTEM

#### Processor

- Support 6<sup>th</sup> & 7<sup>th</sup> Gen Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® Desktop Processor (LGA 1151)
- 7<sup>th</sup> Gen Intel® Core™ i7-7700T, Quad Core, 8MB cache, up to 3.8 GHz
  - 7<sup>th</sup> Gen Intel® Core™ i5-7500T, Quad Core, 6MB cache, up to 3.3 GHz
  - 7<sup>th</sup> Gen Intel® Core™ i3-7101TE, Dual Core, 3MB Cache, 3.4 GHz
  - 6<sup>th</sup> Gen Intel® Core™ i7-6700TE, Quad Core, 8MB Cache, up to 3.4 GHz
  - 6<sup>th</sup> Gen Intel® Core™ i5-6500TE, Quad Core, 6MB Cache, up to 3.3 GHz
  - 6<sup>th</sup> 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 DDR4 1866/2133MHz SODIMM.  
Max. up to 32GB

BIOS AMI 128Mbit SPI BIOS

Watchdog Software Programmable Supports 1~255 sec.  
System Reset

TPM TPM 1.2

### DISPLAY

Graphics Intel® HD Graphics 530 / 630 or  
NVIDIA GeForce® GTX 1050 Ti

DVI 2x DVI-I

DisplayPort 3x DisplayPort

HDMI 1x HDMI

Multiple Display 6 Display Interfaces

### 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 PCI Express)

SIM Socket 2x External SIM socket  
2x Internal SIM socket

### EXPANSION

Mini PCI Express 4x Full-size Mini PCIe (shared by 2x mSATA)

### 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 4x WiFi Antenna Holes  
1x Power Switch, 1x AT/ATX Switch,  
1x Remote Power On/Off

### OPERATING SYSTEM

Windows 6<sup>th</sup> Gen CPU: Windows 10, Windows 7, WES7  
7<sup>th</sup> 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/9.2A, 220W

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

### ENVIRONMENT

Operating Temp. -25°C to 60°C

Storage Temp. -40°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 TBD

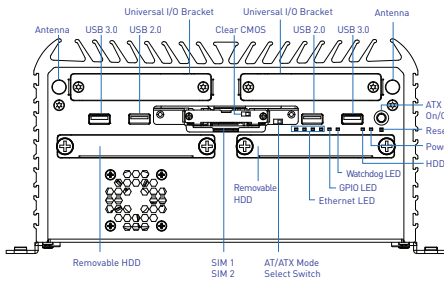
Mounting Wall Mounting

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

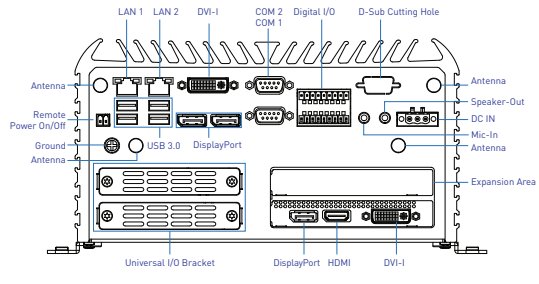
† The environmental specification covers the bare bone systems and does not include other components environmental specification.

## EXTERNAL I/O MECHANICAL LAYOUT

Front Panel

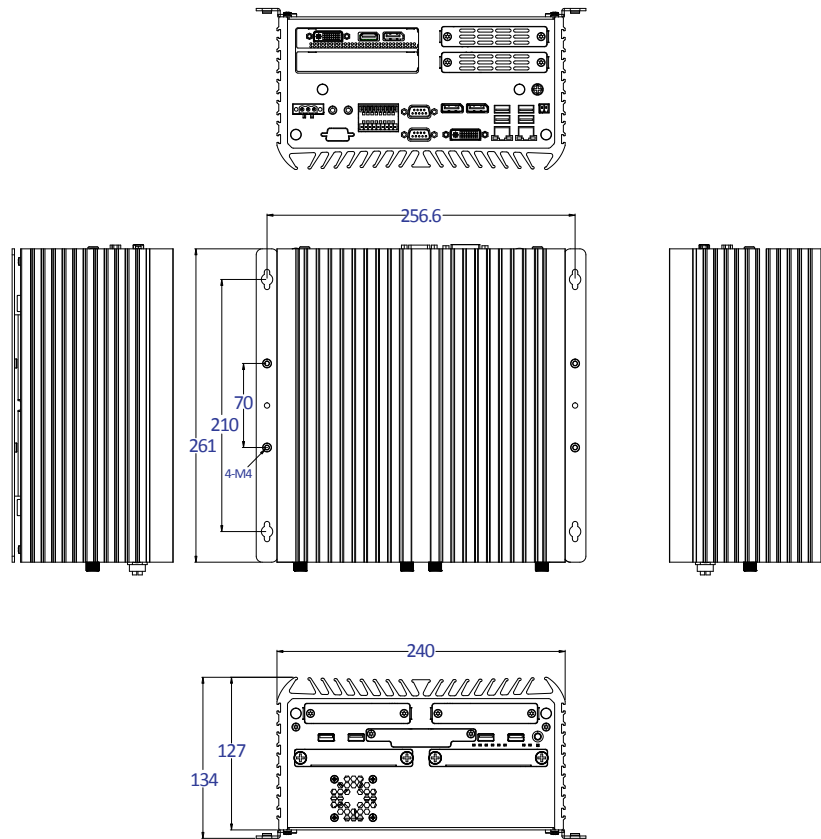


Rear Panel



## DIMENSION

Unit: mm



## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
RCO-6020-1050TI	GPU Computing System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, GTX 1050Ti Integrated

## OPTIONAL ACCESSORIES

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
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

## PACKING LIST

- 1x RCO-6020-1050TI Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter

