

Box PC

FEATURES

- LGA 1151 socket for 6th/7th Gen. Intel® Core™ i7/i5/i3 or Pentium® / Celeron® Desktop Processor
- Intel® Q170 chipset
- 2x 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
- 2x 2.5" SATA HDD Bay, 2x mSATA (shared by 2x mini PCIe), and 1x CFast supporting RAID 0, 1, 5, 10
- 3x full-size mini PCIe for communication or expansion modules
- 4x RS-232/422/485 (w/ 2x internal), 4x USB 3.0
- 2x PCIe x4, 1x PCIe x8, and 1x PCI expansion
- 8x DI + 8x DO with isolation
- 9 to 50VDC 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 DDR4 1866/2133MHz SODIMM. Max. up to 32GB

BIOS AMI 128Mbit SPI BIOS

Watchdog Software Programmable Supports 1~255 sec. System Reset

DISPLAY

VGA Yes (by optional split cable)

DVI 1x DVI-I

DisplayPort 2x DisplayPort

Multiple Display Triple Display

STORAGE

SSD/HDD 2x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10

mSATA 2x mSATA (shared by 2x Mini PCI Express)

CFast 1x CFast

EXPANSION

Mini PCI Express 3x full-size Mini PCIe (shared by 2x mSATA)

PCI Express 2x PCIe x4, 1x PCIe x16 (8-lane)

PCI 1x PCI

I/O

COM 2x RS-232/422/485
2x RS-232/422/485 (internal)

USB 4x USB 3.0

LAN 2x RJ45

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

DIO 8 in / 8 out (Isolated)

Others 2x WiFi Antenna Holes
1x Power Switch, 1x AT/ATX Switch

OPERATING SYSTEM

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

Linux Linux kernel 4.X

POWER

Power Mode AT, ATX

Power Supply Voltage 9~50VDC

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. -40°C to 85°C

Relative Humidity 10% to 95% (non-condensing)

Vibration With SSD: 3 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

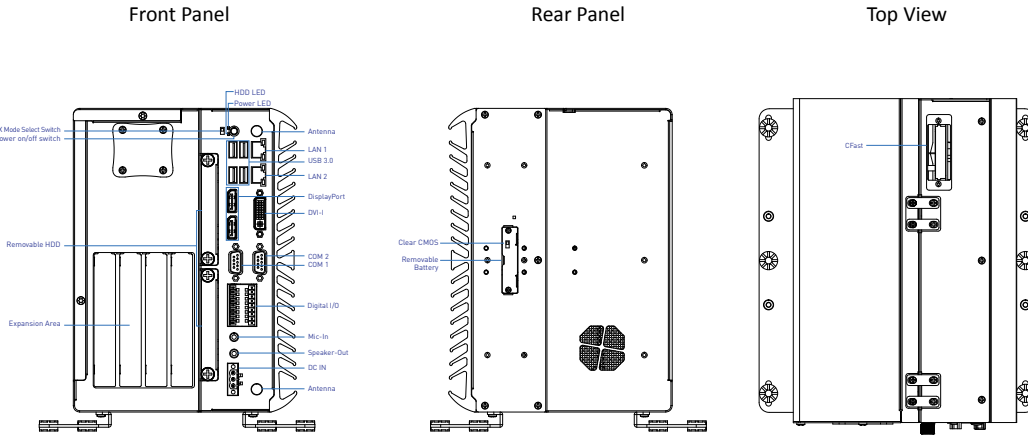
Dimension 177 (W) x 256 (D) x 240 (H) mm

Weight 6.02 kg

Mounting Wall / Book Mounting
DIN-Rail Mounting (Optional)

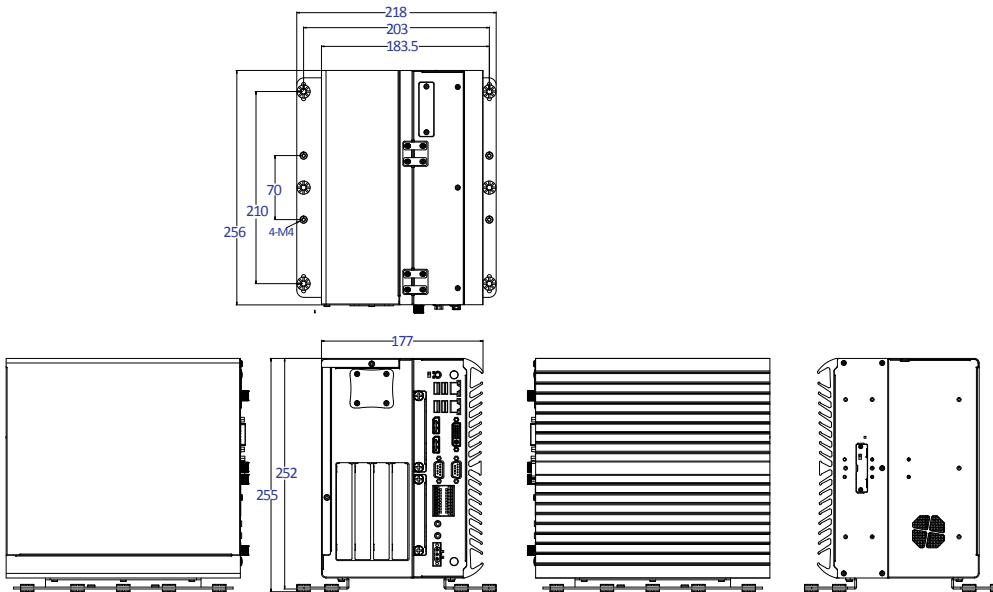
Box PC

EXTERNAL I/O MECHANICAL LAYOUT



DIMENSION

Unit: mm



AVAILABLE MODELS

MODEL NO.	DESCRIPTION
VCO-6044C	Superior Machine Vision System with LGA 1151 for Intel® 6 th /7 th Gen Processor and Q170 PCH, 2x PCIe x4, 1x PCIe x8, 1x PCI

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

PACKING LIST

- 1x VCO-6000 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit
- 1x DVI to VGA Adapter