

# VCO-6011E



Superior Machine Vision System with LGA 1151 for Intel® 6<sup>th</sup>/7<sup>th</sup> Gen Processor and Q170 PCH, 1x PCIe x16

## FEATURES

- LGA 1151 socket for 6<sup>th</sup>/7<sup>th</sup> 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, TPM 1.2
- 1x PCIe x16 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



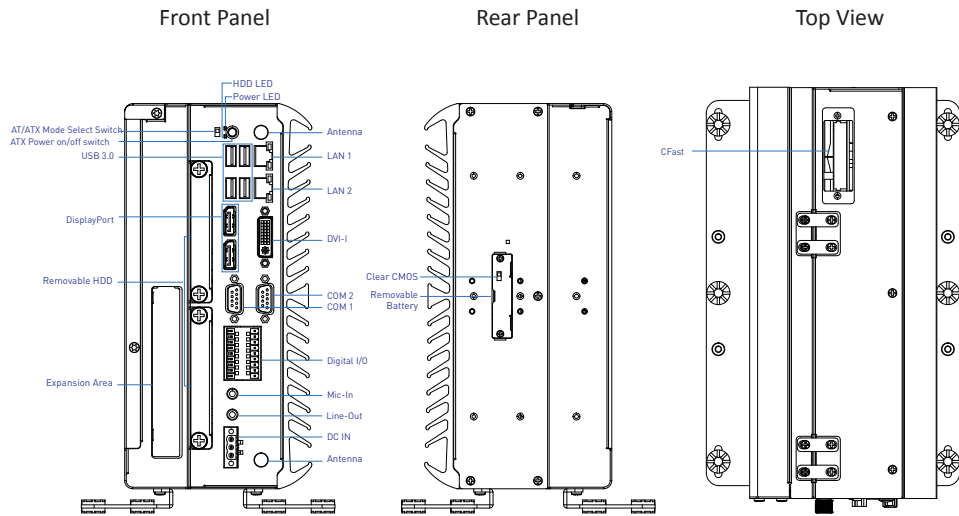
## SPECIFICATIONS

SYSTEM		I/O	
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	COM	2x RS-232/422/485 2x RS-232/422/485 (internal)
System Chipset	Intel® Q170 Express Chipset	USB	4x USB 3.0
LAN Chipset	GbE1: Intel® I210-AT (Support Wake-on-LAN and PXE) GbE2: Intel® I219LM (Support Wake-on-LAN and PXE)	LAN	2x RJ45
Audio Codec	Realtek ALC888S	Audio	1x Mic-in, 1x Speaker-out
System Memory	2x DDR4 1866/2133MHz SODIMM. Max. up to 32GB	DIO	8 in / 8 out (Isolated)
BIOS	AMI 128Mbit SPI BIOS	Others	2x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch
Watchdog	Software Programmable Supports 1~255 sec. System Reset	<b>OPERATING SYSTEM</b>	
TPM	TPM 1.2	Windows	6 <sup>th</sup> Gen CPU: Windows 10, Windows 7, WES7 7 <sup>th</sup> Gen CPU: Windows 10
<b>DISPLAY</b>		Linux	Linux kernel 4.X
VGA	Yes (by optional split cable)	<b>POWER</b>	
DVI	1x DVI-I	Power Mode	AT, ATX
DisplayPort	2x DisplayPort	Power Supply Voltage	9~50VDC
Multiple Display	Triple Display	Power Connector	3-pin Terminal Block
<b>STORAGE</b>		Power Adaptor	Optional AC/DC 24V/5A, 120W
SSD/HDD	2x Removable 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10	Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
mSATA	2x mSATA (shared by 2x Mini PCI Express)	<b>ENVIRONMENT</b>	
CFast	1x CFast	Operating Temp.	-25°C to 70°C
<b>EXPANSION</b>		Storage Temp.	-40°C to 85°C
Mini PCI Express	3x full-size Mini PCIe (shared by 2x mSATA)	Relative Humidity	10% to 95% (non-condensing)
PCI Express	1x PCIe x16	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
		<b>PHYSICAL</b>	
		Construction	Extruded Aluminum with Heavy Duty Metal
		Dimension	117 (W) x 256 (D) x 240 (H) mm
		Weight	5.29 kg
		Mounting	Wall / Book Mounting DIN-Rail Mounting (Optional)

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

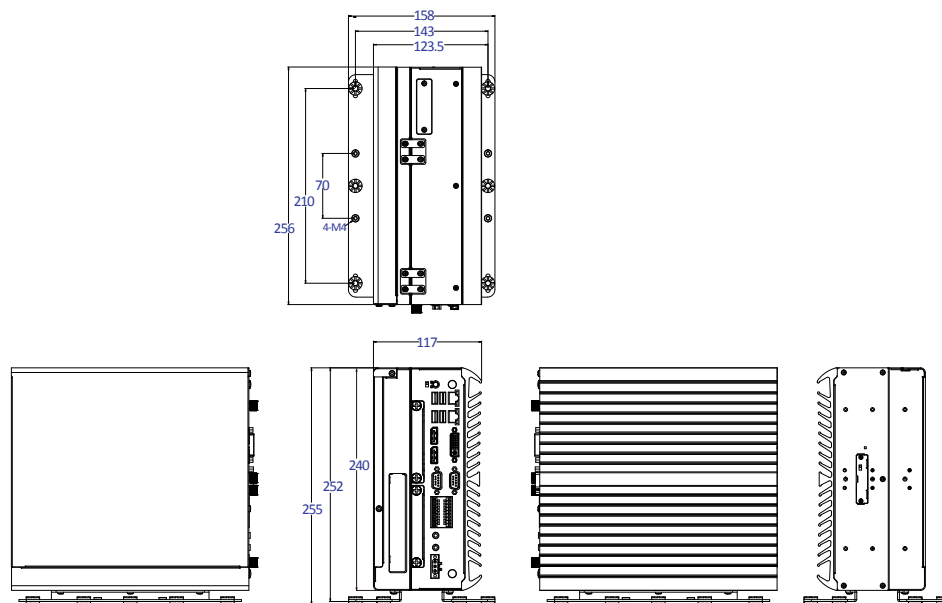
† The environmental specification covers the bare bone systems and does not include other components environmental specification.

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
VCO-6011E	Superior Machine Vision System with LGA 1151 for Intel® 6 <sup>th</sup> /7 <sup>th</sup> Gen Processor and Q170 PCH, 1x PCIe x16

## 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

