



Machine Vision Computer

VCO-6000-KBL-1

Machine Vision Computer with 6th/7th Gen Intel® Core™ Processors, 1x Expansion Slot



Features

- 1X PCIe x16 slot (VCO-6000-KBL-1E) or 1 x PCI slot (VCO-6000-KBL-1I)
- LGA 1151 socket for 7th and 6th Gen. Intel® Core™ i7/i5/i3 processor
- 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), 1x CFast (shared by 1x SATA)
- 3x full-size mini PCIe for communication or expansion modules
- 4x RS-232/422/485 (w/ 2x internal), 4x USB 3.0
- 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	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
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	
Display Port	2x DP
DVI	1x DVI-I
Multiple Display	Triple Display
Storage	
CFast	1x CFast
mSATA	2x mSATA (shared by 1x Mini PCIe)
SSD/HDD	2x Internal 2.5" SATA HDD Bay Support RAID 0,1,5,10
Expansion	
Mini PCIe	3x 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
USB	4x USB 3.0
Others	2x 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
Power Mode	AT, ATX
Power Supply Voltage	9~50VDC
Power Connector	3-pin Terminal Block
Power Protection	Over-Voltage Protection (OVP) Over-Current Protection (OCP) Reverse Polarity Protection (RPP)
Environment	
Operating Temperature	-13°F ~ 158°F (-25°C ~ 70°C)

Storage Temperature	-22°F ~ 185°F (-30°C ~ 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	50G, half-sine, 11 ms (SSD)
Physical	
Dimensions	117 (W) x 256 (D) x 240 (H) mm 4.6 (W) x 10.0 (D) x 9.4 (H) inches
Weights	5.37 kg / 12.6 lbs
Construction	Extruded aluminum with heavy duty metal
Mounting Options	Wall / Book Mounting DIN-rail mounting optional

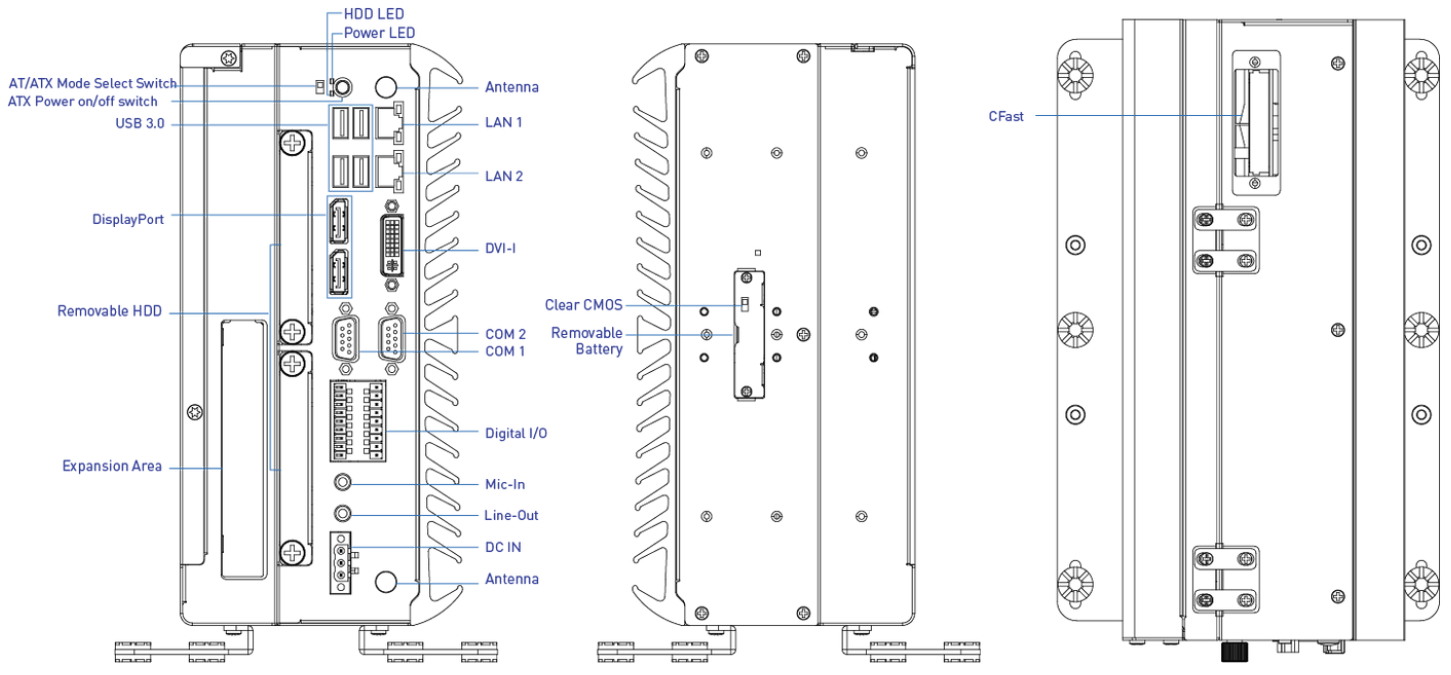
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout

Front Panel

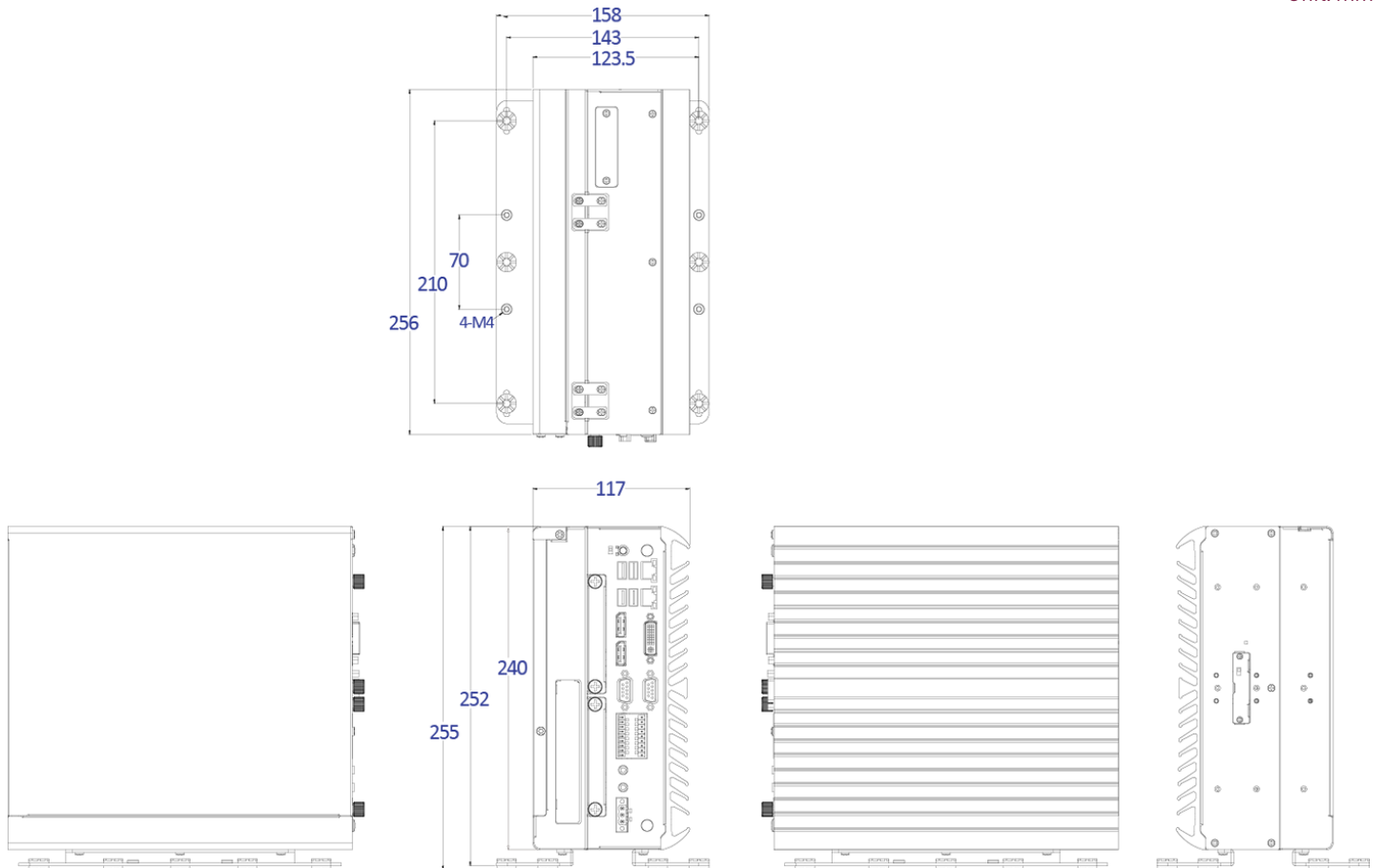
Rear Panel

Top View



Dimension

Unit: mm



Available Models

Model No.	Description
VCO-6000-KBL-1E-P	Machine Vision Computer with 6th/7th Gen Intel® Core™ Processors, 1x PCIe x16
VCO-6000-KBL-1I-P	Machine Vision Computer with 6th/7th Gen Intel® Core™ Processors, 1x PCI

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 VCO-6000-KBL-1
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit

Exports And Tariff Codes

ECCN	5A992.c
HTS	8471.50.0150
Schedule B	84.71