



Machine Vision Computer

VCO-6000-KBL-3-2PWR

Machine Vision Computer with 6th/7th Gen Intel® Core™ Processor and Q170 PCH, Supports up to RTX 2060 Super GPU



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, TPM 2.0
- 2x PCIe x4 (1-Lane) and 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

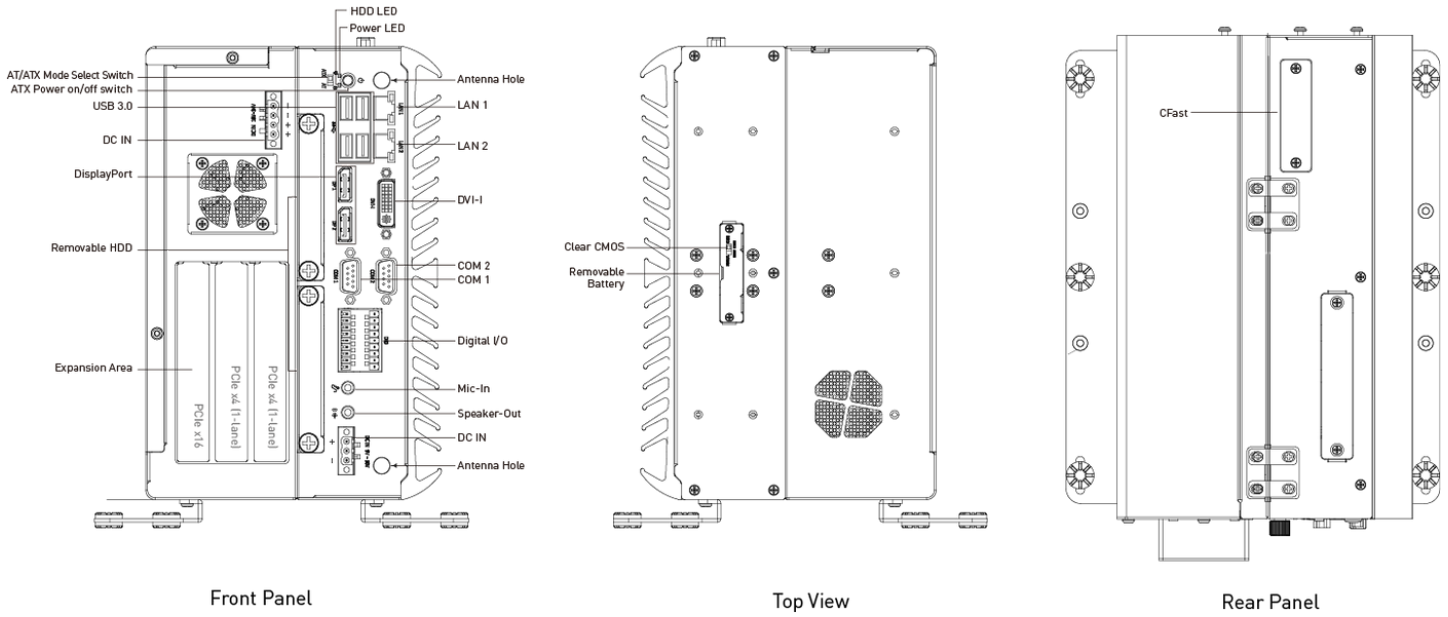
Specifications

System	
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™ i3-7100T, 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	<ul style="list-style-type: none"> • 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 240-pin DDR4 SO-DIMM sockets 1866/2133 MT/s, Non-ECC, unbuffered SDRAM Max. 32GB
Graphics	Intel® HD Graphics 530 / 630 Nvidia RTX 2060 Super Mini
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
TPM	TPM 2.0
Display	
Display Port	2x DP
DVI	1x DVI-I
Multiple Display	Triple Display
Storage	
CFast	1x CFast
mSATA	2x mSATA (shared by 2x Mini PCIe)
SSD/HDD	2x Hotswap 2.5" SATA HDD Bay Support RAID 0, 1, 5, 10
Expansion	
Mini PCIe	3x Full-size Mini PCIe
PCIe	2x PCIe x4 (1-lane), 1x PCIe x16
Card Dimension	235 (L) x 112 (H) mm; 2 slots
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
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 Optional AC/DC 24V/9.2A 220W
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	-25°C to 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Certification	CE, FCC Class A
Vibration	with SSD: 3 Grms, 5 - 500 Hz, 0.5 hr/axis with HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Shock	Shock with SSD: 50G, half sine, 11ms
Physical	
Dimensions	157 (W) x 256 (D) x 240 (H) mm
Construction	Extruded aluminum with heavy duty metal
Mounting Options	Wall Mount / Book Mount DIN-Rail Mounting (optional)

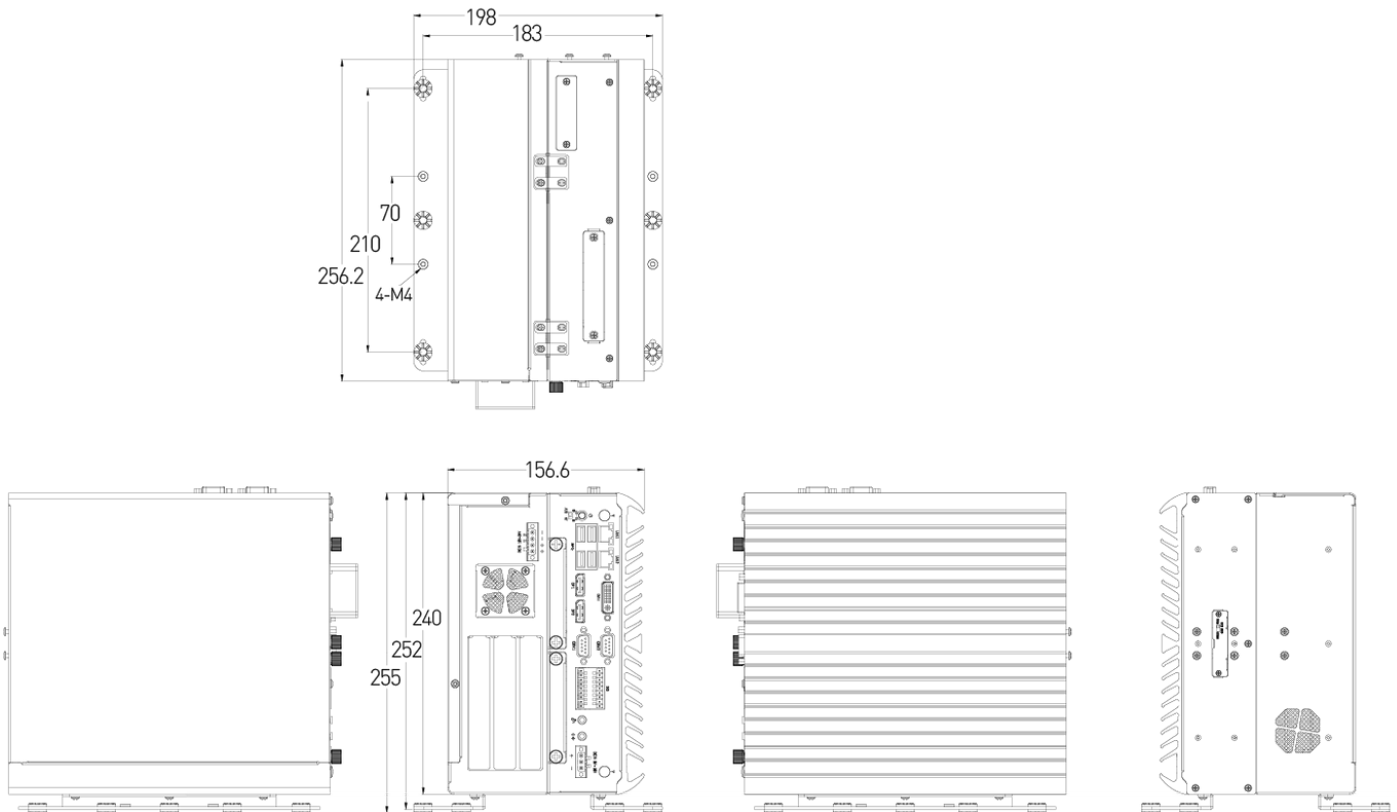
* All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Dimension

Unit: mm



Available Models

Model No.	Description
VCO-6000-KBL-3E-2PWR-P	Machine Vision Computer with 6th/7th Gen Intel® Core™ Processor and Q170 PCH, Supports up to RTX 2060 Super GPU

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-3-2PWR
- 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