FANLESS EMBEDDED SYSTEMS

VCO-3411E series

Advanced Machine Vision System with Intel® Core™ i5/i3 Processor,
1x PCIe x4 Slot (1 Lane) Expansion

FEATURES

- Intel® 7th Gen (Kaby Lake-U) Processor Core™ i5-7300U, Core™ i3-7100U
- 1x DDR4 SODIMM. max up to 16GB
- Triple independent display supported by 1x VGA and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Internal 2.5" SATA HDD Bay with RAID 0, 1, 5 support,
  1x mSATA (shared by 1x Mini PCIe & 1x SATA), and
  1x CFast (shared by 1x mSATA & 1x SATA)
- 2x full-size mini PCIe for communication or expansion modules
- 4x RS-232/422/485, 4x USB 3.0
- 1x PCIe x4 expansion
- 8x DI + 8x DO with isolation
- 9 to 50VDC wide range power input supporting AT/ATX mode
- -40°C to 70°C extended operating temperature

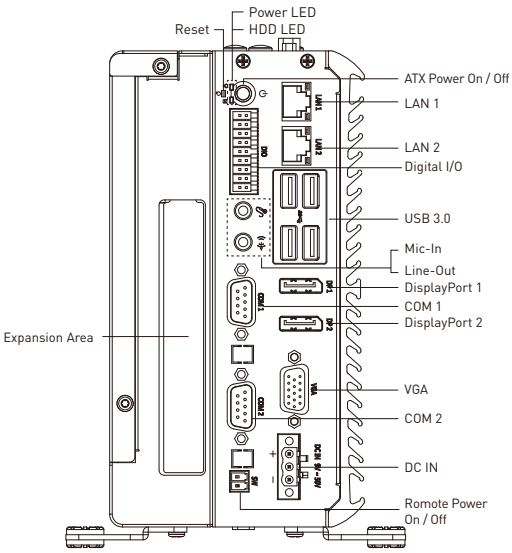
SPECIFICATIONS

System	
Processor	7th Gen Intel® Core™ i5-7300U Processor, Dual Core, 3MB Cache, up to 3.5 GHz 7th Gen Intel® Core™ i3-7100U Processor, Dual Core, 3MB Cache, 2.4 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I219LM (Support Wake-on-LAN and PXE) GbE2: Intel® I210-AT (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x 260-Pin DDR4 1866/2133MHz SODIMM. Max. up to 16GB
BIOS	AMI 128Mbit SPI BIOS
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Display	
VGA	1x VGA
DisplayPort	2x DisplayPort
Multiple Display	Triple Display
Storage	
SSD/HDD	2x Internal 2.5" SATA HDD Bay Support RAID 0, 1, 5
mSATA	1x mSATA (shared by 1x Mini PCIe & 1x SATA)
CFast	1x CFast (shared by 1x mSATA & 1x SATA)
Expansion	
Mini PCI Express	2x Full-size Mini PCIe
PCI Express	1x PCIe x4 slot with 1-lane Gen2 PCIe Signal
Card Dimension	175 (L) x 112 (H) mm
I/O	
COM	4x RS-232/422/485
USB	4x USB 3.0
LAN	2x RJ45
Audio	1x Mic-in, 1x Line-out
DIO	8 in / 8 out (Isolated)
Others	3x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off

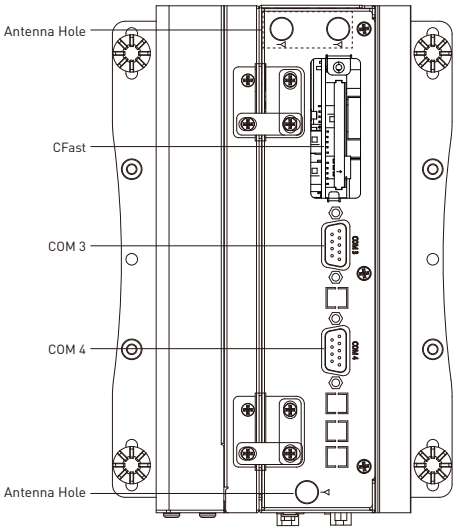
Operating System	
Windows	Windows 10
Linux	Linux kernel 4.X
Power	
Power Mode	AT, ATX
Power Supply Voltage	9~50VDC
Power Connector	3-pin Terminal Block
Power Adaptor	Optional AC/DC 12V/5A, 60W
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temp.	-40°C to 70°C
Storage Temp.	-40°C to 85°C
Relative Humidity	10% to 95% (non-condensing)
Vibration	With SSD: 1 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	99 (W) x 197 (D) x 185 (H) mm
Weight	3.31 kg
Mounting	Wall / Book Mounting

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

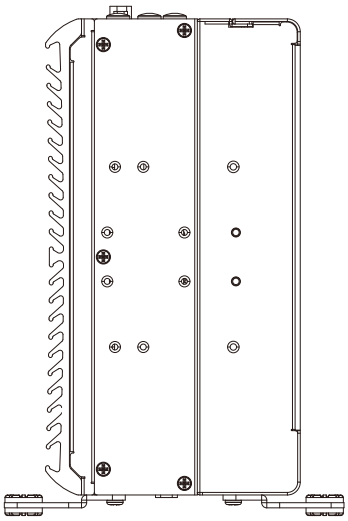
EXTERNAL I/O MECHANICAL LAYOUT



Front Panel



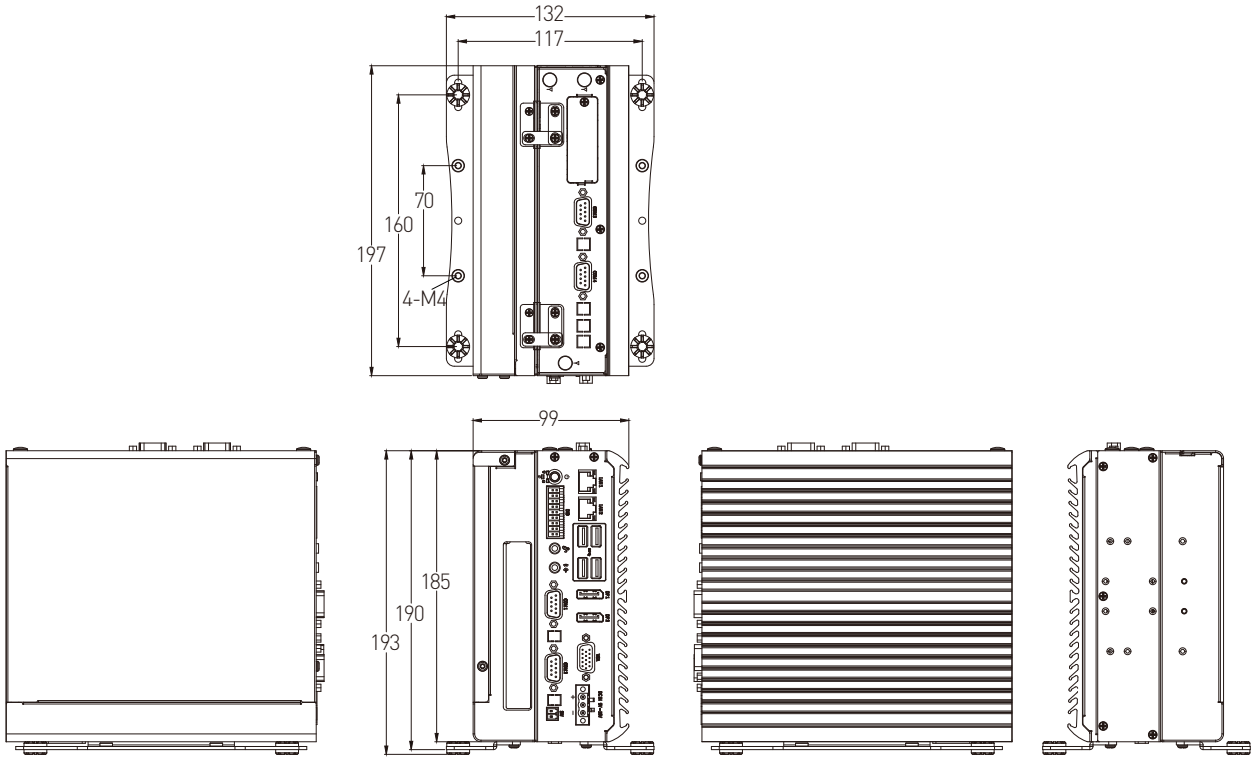
Top View



Rear Panel

DIMENSION

Unit: mm



ORDERING INFORMATION

MODEL NO.	DESCRIPTION
1-E09A06007	Adapter AC/DC 12V 5A 60W 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-3400 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit

AVAILABLE MODELS

MODEL NO.	DESCRIPTION
VCO-3411E-7300U	Advanced Machine Vision System with Intel® Core™ i5-7300U, 1x PCIe x4 Slot (1 Lane)
VCO-3411E-7100U	Advanced Machine Vision System with Intel® Core™ i3-7100U, 1x PCIe x4 Slot (1 Lane)

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