

# VCO-6131E-4M2

Superior AI Edge Computing System with LGA-1151 socket for Intel® CFL-R S Processor



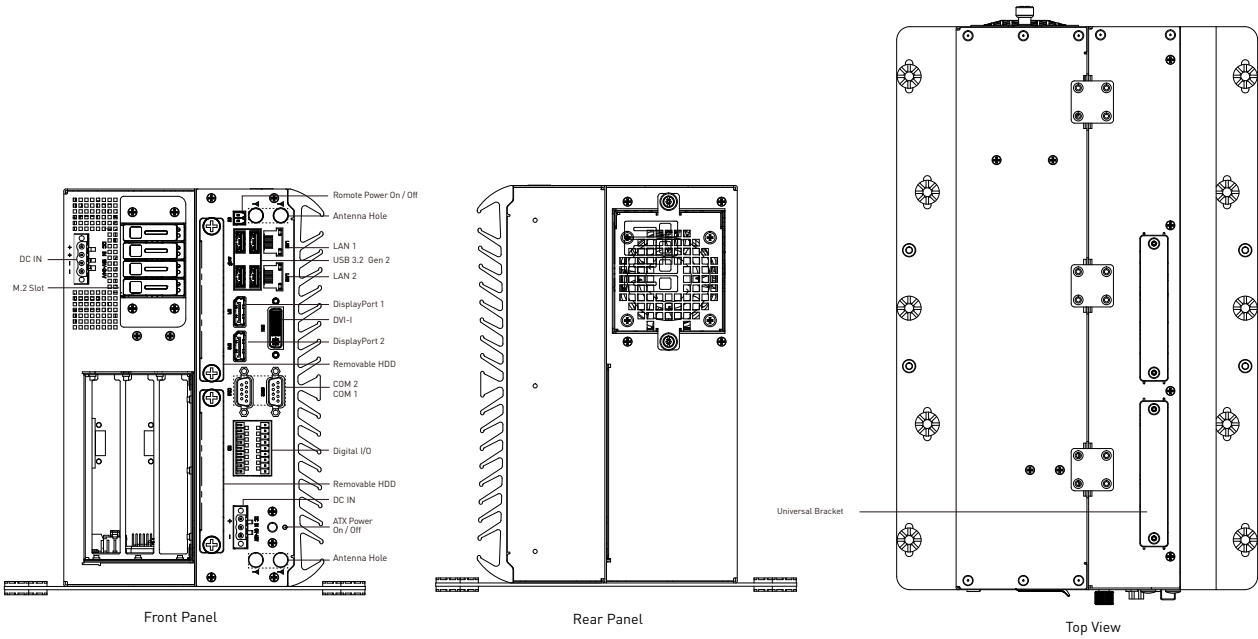
## FEATURES

- Support 8<sup>th</sup> / 9<sup>th</sup> Gen. Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
- Intel® Q370 chipset
- 2x DDR4 2400/2666Hz SODIMM. Max. up to 64GB
- Triple Independent Display by 1x DVI-I and 2x DisplayPort
- 2x Intel® GbE supporting Wake-on-LAN and PXE
- 2x Full-size mini PCIe (shared by 1x mSATA), 1x PCIe x16, and 4x M.2 (x8), 2x SIM socket
- 4x 2.5" SATA HDD bay with RAID 0, 1, 5, 10 support, 1x mSATA (shared by 1x Mini PCIe)
- 1x M.2 (M Key, NVMe PCIe x4, 2280); 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
- 4x RS-232/422/485 (w/ 2x internal), 4x USB 3.2 Gen 2 (10Gbps)
- 8x DI + 8x DO with isolation
- 9 to 48VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature (-25°C to 60°C)
- TPM 2.0 Supported

## SPECIFICATIONS

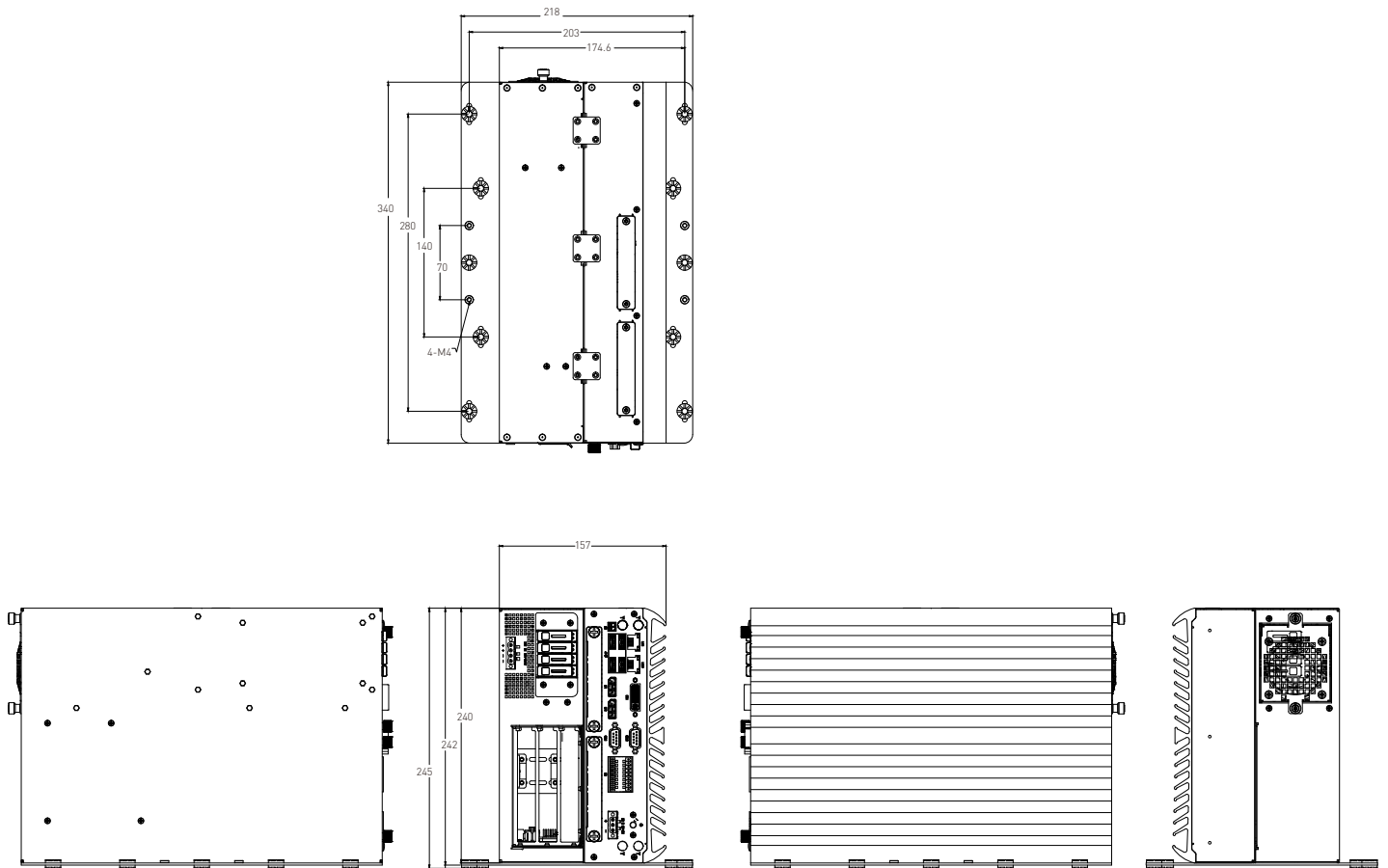
System	
Processor	Support 8 <sup>th</sup> /9 <sup>th</sup> Gen Intel® CFL-R S Processor (LGA 1151, 65W/35W TDP)
	- Intel® Core™ i7-9700E, 8 Cores, 12MB cache, up to 4.4 GHz
	- Intel® Core™ i5-9500E, 6 Cores, 9MB Cache, up to 4.2 GHz
	- Intel® Core™ i3-9100E, 4 Core, 6MB Cache, 3.7 GHz
	- Intel® Core™ i7-9700TE, 8 Cores, 12MB cache, up to 3.8 GHz
	- Intel® Core™ i5-9500TE, 6 Cores, 9MB Cache, up to 3.6 GHz
	- Intel® Core™ i3-9100TE, 4 Core, 6MB Cache, 3.2 GHz
	- Intel® Core™ i7-8700T, 6 Cores, 12MB cache, up to 4.0 GHz
	- Intel® Core™ i5-8500T, 6 Cores, 9MB Cache, up to 3.5 GHz
	- Intel® Core™ i3-8100TE, 4 Cores, 6MB Cache, 3.1 GHz
	- Intel® Pentium® G5400T, 2 Cores, 4MB Cache, up to 3.1 GHz
	- Intel® Celeron® G4900T, 2 Cores, 2MB Cache, up to 2.9 GHz
System Chipset	Intel® Q370 Express Chipset
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	2x 260-Pin DDR4 2400/2666MHz SODIMM. Max. up to 64GB (Un-buffered and Non-ECC)
BIOS	AMI 256Mbit SPI BIOS
Watchdog	Software Programmable Supports 1-255 sec. System Reset
TPM	TPM 2.0
Display	
VGA	Yes (by optional split cable)
DVI	1x DVI-I, support resolution 1920 x 1200
DisplayPort	2x DisplayPort, support resolution 4096 x 2304
Multiple Display	Triple Display
Storage	
SSD/HDD	2x Internal 2.5" SATA HDD Bay (support H=15mm) 2x Removable 2.5" SATA HDD Bay (support H=9mm, hot-swappable) Support RAID 0, 1, 5, 10
mSATA	1x mSATA (Shared by 1x Mini PCI Express)
M.2	1x M.2 (M Key, NVMe PCIe x4, 2280) 1x M.2 (E Key, PCIe x2, USB 2.0, 2230)
SIM Socket	2x Internal SIM socket
Expansion	
Mini PCI Express	2x Full-size Mini PCIe (1x shared by 1x mSATA)
PCI Express	1x PCIe x16 slot for GPU card(x8) & 4 M.2(x8)
Card Dimension	312mm(L) x 111.15mm(H)
I/O	
COM	2x RS-232/422/485 2x RS-232/422/485 (internal)
USB	4x USB 3.2 Gen 2 (10 Gbps)
LAN	2x RJ45
DIO	8 in / 8 out (Isolated)
Universal I/O Bracket	1x Universal I/O Bracket (By mini PCIe interface)
Others	4x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x PC/Car Mode Switch, 1x Delay Time Switch 1x Removable CMOS Battery (internal)
Windows	Windows 10
Linux	Linux kernel
Power	
Power Mode	AT, ATX
Power Supply Voltage	9~48VDC
Power Ignition Sensing	Power Ignition Management
Power Connector	3-pin Terminal Block ; 4-pin 12V DC input as optional
Power Adaptor	Optional AC/DC 24V, 220W/280W Optional AC/DC 24V, 280W for GPU
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse proteceion
Environment	
Operating Temp.	-25°C to 60°C (65W / 35W CPU)
Storage Temp.	-30°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: 30G, half sine, 11ms
Standards / Certification	CE, FCC Class A
Physical	
Construction	Extruded Aluminum with Heavy Duty Metal
Dimension	157 (W) x 340 (D) x 240 (H) mm
Weight	9.5 kg
Mounting	Wall Mounting

## EXTERNAL I/O MECHANICAL LAYOUT



## DIMENSION

Unit: mm



## ORDERING INFORMATION

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 3-pin Terminal Block Plug 5.0mm Pitch
SFICBL022	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-6100 Series Embedded System
- 1x Utility DVD Driver
- 1x Wall Mount Kit
- 1x Accessory Kit

## AVAILABLE MODELS

MODEL NO.	DESCRIPTION
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### 【問合せ先】

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