

# AIV-Q170V1FL

Fan-less PC Sky-lake S TE Ver CPU with 4 x POE smart power system



## Features

- Support 4 X POE GbE LAN port with RJ45 connector
- Support 2 x swappable 2.5 inch SSD bay
- Support 3 x Mini PCI-e (For 4G & GPS module with 2 x SIM card Socket)



## Specification

### System

CPU	Intel®7 <sup>th</sup> Gen Core i7
Chipset	Intel® Q170 chipset
Memory	2 x DDR4-SO-DIMM // 2 x 8GB (Min 16GB)

### Video

Chipset	Intel® HD Graphics 530 / DVMT V4.0
Video Memory	Integrated
Video Interface	1 x HDMI (With locking bracket) 1 x VGA 1 x DVI-D

### Storage

SATA	2 x SATA III port
Disk Bay	2 x swappable 2.5 inch SSD bay / 500GB SSD
CF	1 x CFAST

### I/O

Ethernet	2 x GbE, RJ45, Intel i210IT chipset
PoE	4 X POE GbE LAN port with RJ45 connector (802.3at ,total 60W max)
USB	8 X USB 3.0
Serial Port	4 X COM - DB9 (RS232/RS422/485)
CAN Bus	CAN Bus 2.0B / OBD II (J1939) for BOM Option
GPIO	GPIO 4-in / 4-out,
Audio	3 x Audio jack Green: Audio out Blue: Remote switch Pink : Mic in
Mini-PCI-e	3 x Mini PCI-e socket
SIM Card	2 x SIM card Socket

### Others

WatchDog Timer	1~255 sec. software programmable(0=Disable)
TPM	On-board TPM 1.2 / 2.0 for optional
G Sensor	1 x G Sensor board

### Software

OS Support	Windows 10 (64 bit) / Linux kernel to 4.4 or above(64 bit)
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### Power Requirement

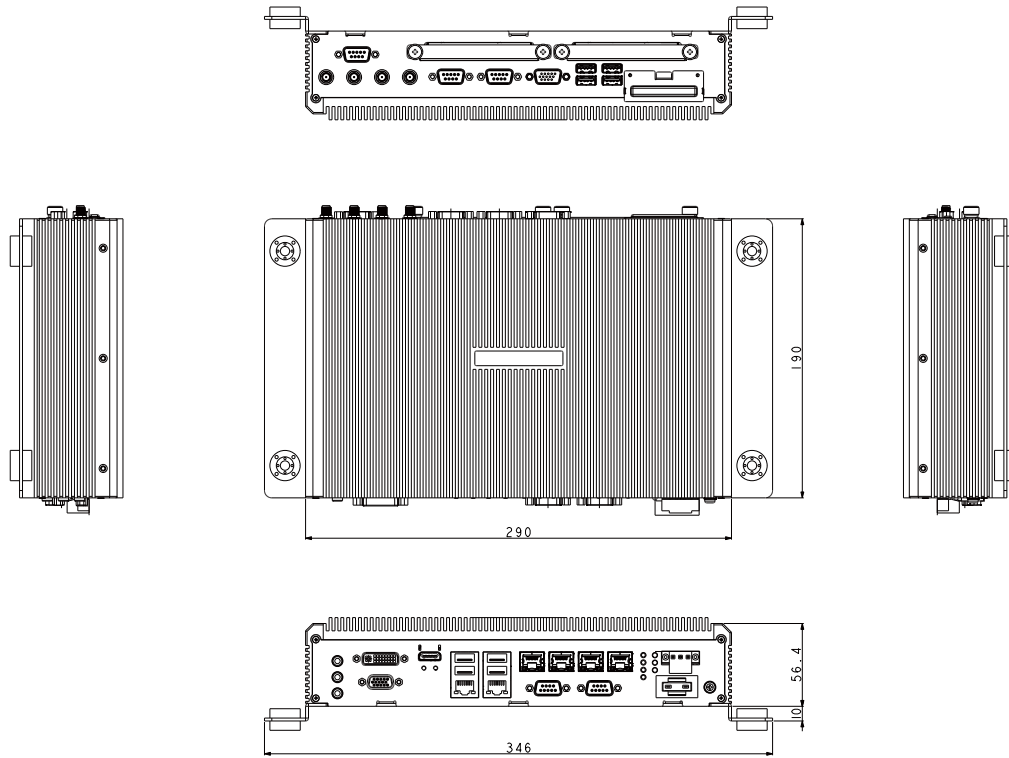
Power Input	Power sub system spec:9~36 V power input
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### Mechanical & Environment

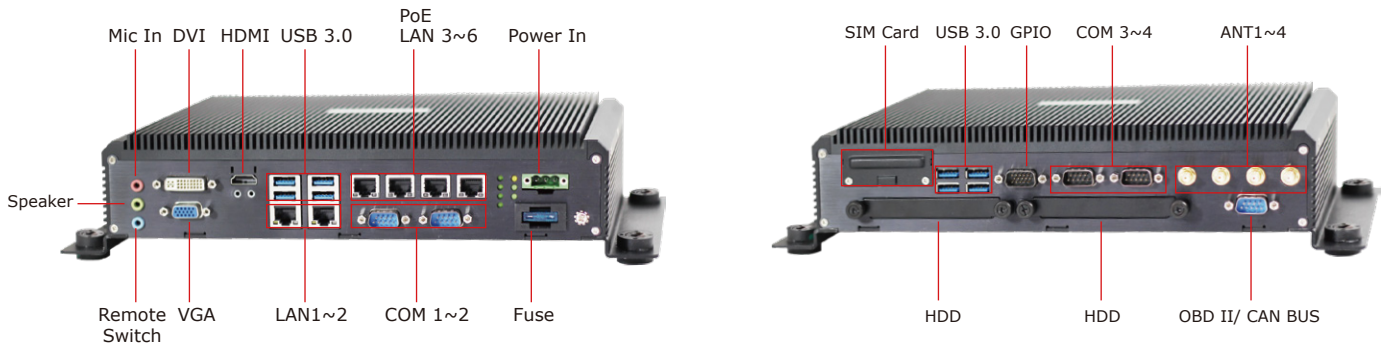
Dimension	270mm x 170 mm x 63 mm
Operating Temp.	-25 ~ 60°C
Chassis	Aluminum extrusion heat sink & metal chassis
Vibration	IEC 60068-2-64, 5~500Hz, 3GRMS(SSD)
Shock	IEC 60068-2-27, 50G 500m/s <sup>2</sup> 11MS
Thermal Design	Fan less
Weight	6.2 Kg
Storage Temp	-40~80°C (-40~176°F)
Safety	CE / FCC class B / E Mark ,

- Monitoring of the processor voltage and temperature
- Consumption(with i7 processor)
- Relative Humidity 0~90 % @40 °C ,without condense

## Dimension



## I/O Connectors



## Packing List

- 1 x AIV-Q170V1FL
- 1 x System Driver CD
- 1 x Terminal block female 3pin
- 1 x HDMI locking bracket
- 1 x 8 bit GPIO/CAN Cable
- 1 x Remote switch cable

## Ordering Information

AIV-Q170V1FL	AIV-Q170V1FL (CAN BUS 2.0)
AIV-Q170V1FL-OBDD	AIV-Q170V1FL-OBDD (OBDD II)
AIV-Q170V1FLS	AIV-Q170V1FLS (CAN BUS 2.0)
AIV-Q170V1FLS-OBDD	AIV-Q170V1FLS-OBDD (OBDD II)

## Optional Module List

- EC20/EC25 (Quectel)(4G + GPS + Glonass)module
- Sierra MC7430(APAC)(4G + GPS + Glonass)for s moodel only
- Sierra MC7455(America)(4G + GPS + Glonass)for s moodel only
- Sparklan 251NBT(2T2R) Wi-Fi + BT a/b/g/n
- RTL8812AEACC-01 (2T2R) Wi-Fi + BT a/b/g/n/ac
- G sensor Board (ADXL345)
- 4GB DDR4 2133 SO-DIMM 1Rx8
- 8GB DDR4 2133 SO-DIMM 2Rx8