# AIV-Q170V1FL

**Intel® 6th-Gen Core™ i7/i5/i3 Skylake in-vehicle fanless embedded computer**

## Features

- Intel® 6th Generation Core™ Desktop Processor
- 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
- In-vehicle power design : 9-36Vdc power input with power ignition

## Specification

### System

| | |
|---|---|
| CPU | Intel® Sky-lake-S 6th Gen Core™ i7-6700 TE<br>Intel® Sky-lake-S 6th Gen Core™ i5-6500 TE<br>Intel® Sky-lake-S 6th Gen Core™ i3-6100 TE |
| Chipset | Intel® Q170 chipset |
| Memory | 2 x DDR4-SO-DIMM |

### Video

| | |
|---|---|
| Chipset | Intel® HD Graphics 530 |
| Video Memory | Integrated |
| Video Interface | 1 x HDMI (With locking bracket)<br>1 x VGA<br>1 x DVI-D |

### Storage

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|---|---|
| SATA | 2 x SATA III port |
| Disk Bay | 2 x swappable 2.5 inch SSD bay |
| CF | 1 x CFast |

### I/O

| | |
|---|---|
| Ethernet | 2 x GbE, RJ45, Intel i210IT chipset |
| PoE | 4 X POE GbE LAN port with RJ45 connector<br>(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 or OBD II (J1939) by SKU |
| GPIO | GPIO 4-in / 4-out, |
| Audio | 3 x Audio jack<br>Green: Audio out<br>Blue: Remote switch<br>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 2.0 (By request) |
| G Sensor | 1 x G Sensor board |

### Software

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|---|---|
| OS Support | Windows 10 (64 bit) / Linux kernel to 4.4 or above(64 bit) |

### Power Requirement

| | |
|---|---|
| Power Input | Power sub system spec:9-36Vdc Power Input with power ignition function |

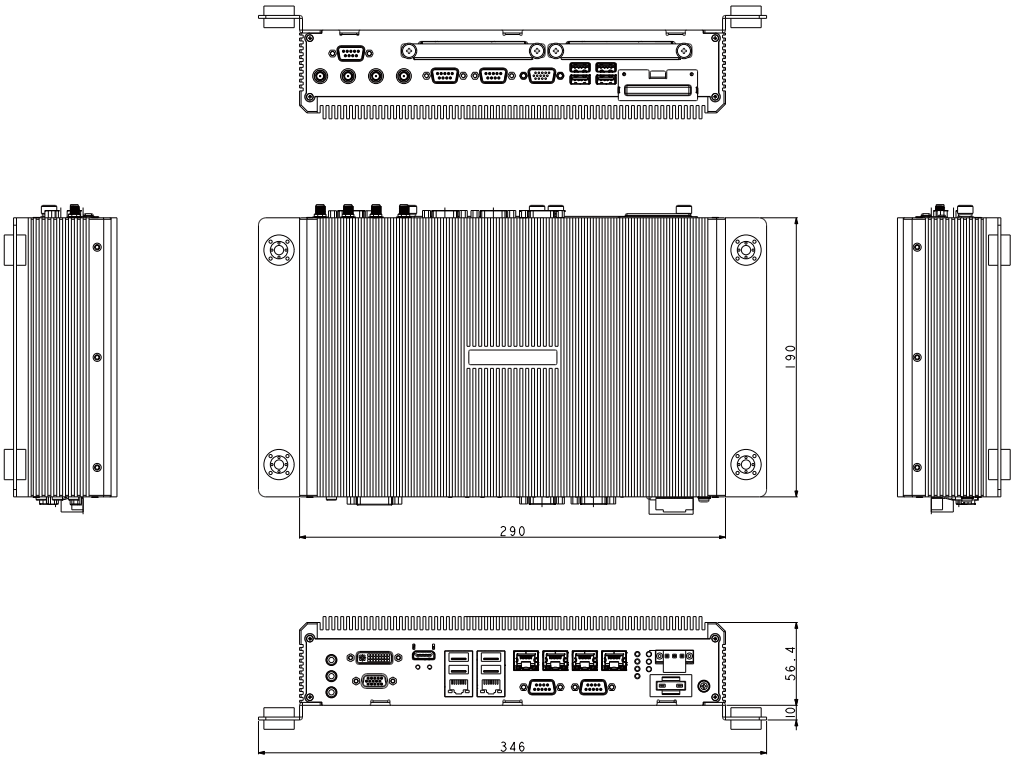
### Mechanical & Environment

| | |
|---|---|
| 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/s2 11MS |
| Thermal Design | Fan less |
| Weight | 6.2 Kg |
| Storage Temp | -40~80°C (-40~176°F) |
| Safety | CE / FCC class B / E Mark , |

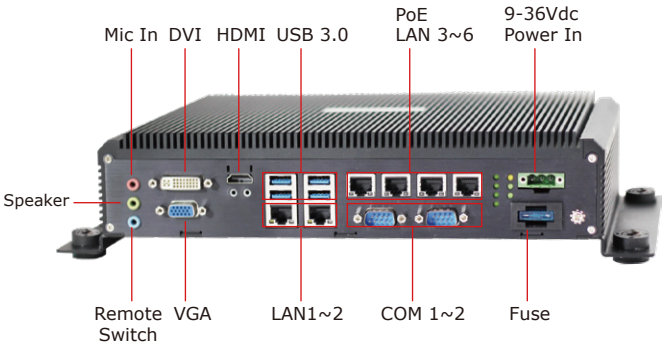


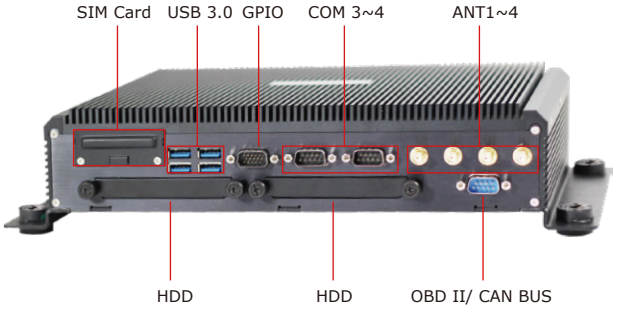
Specifications are subject to change without notice.

## 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 (with CAN Bus) |
| AIV-Q170V1FL-OBD | AIV-Q170V1FL-OBD (with OBD II) |
| AIV-Q170V1FLS | AIV-Q170V1FLS (with CAN Bus , S SKU for install Sierra wireless module use ) |
| AIV-Q170V1FLS-OBD | AAIV-Q170V1FLS-OBD (with OBD II, S SKU for install Sierra wireless module use ) |

## 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
- Jwx6058 (Qualcomm. QCA6174A-5)Wi-Fi5+BT5.0
- G sensor Board (ADXL345)
- 4GB DDR4 2133 SO-DIMM 1Rx8
- 8GB DDR4 2133 SO-DIMM 2Rx8