

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 Intel® Sky-lake-S 6th Gen Core™ i5-6500 TE 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) 1 x VGA 1 x DVI-D

Storage

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 (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 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 2.0 (By request)
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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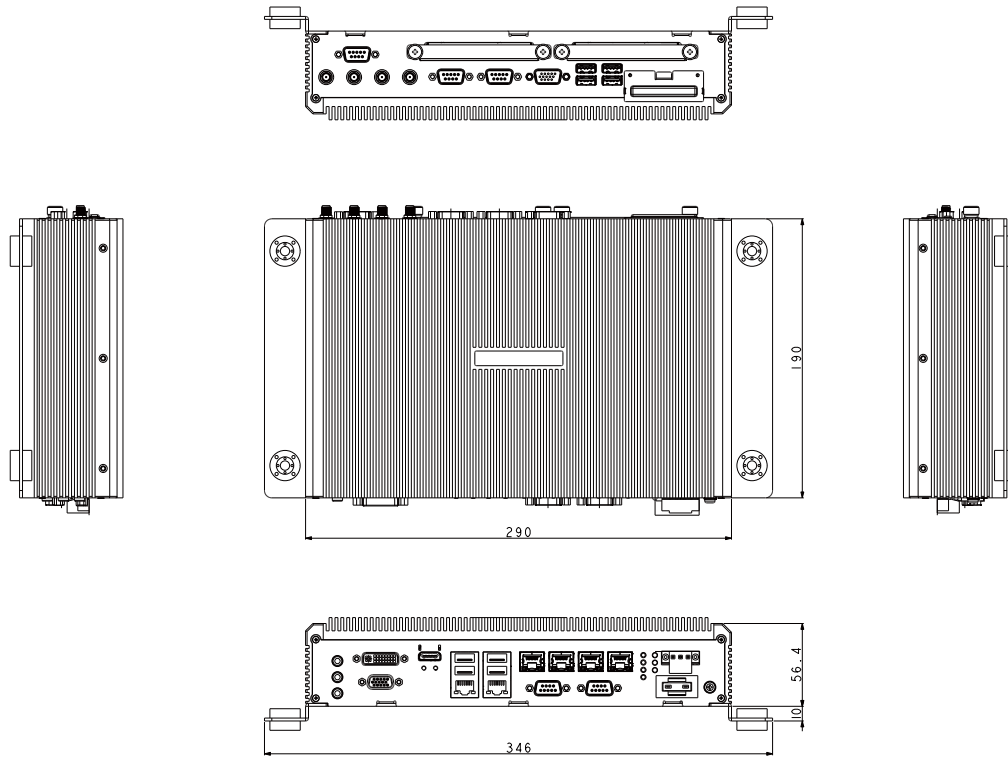
Power Requirement

Power Input	Power sub system spec:9-36Vdc Power Input with power ignition function
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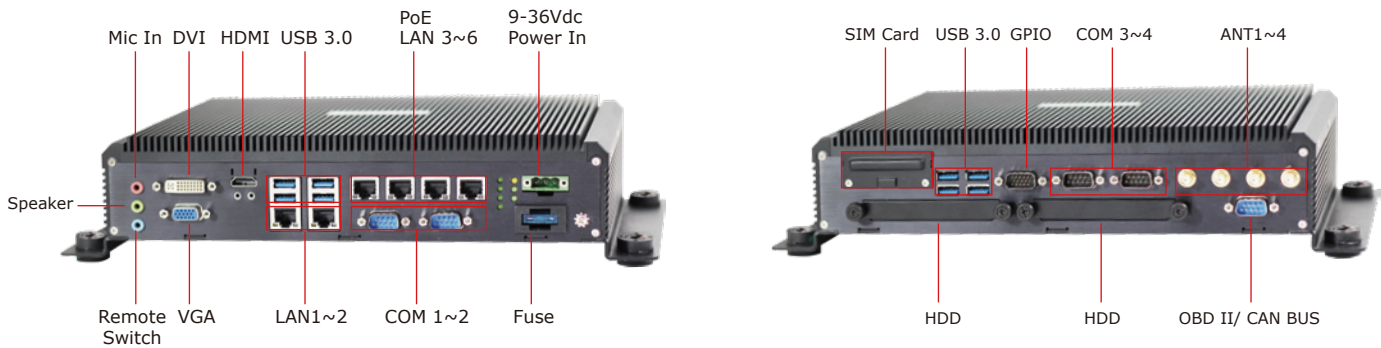
Mechanical & Environment

Dimension	270mm x 170 mm x 63 mm
Operating Temp.	-25 ~ 60°C
Chassis	Aluminum extrusion heat sink & metal chassis
Thermal Design	Fan less
Weight	6.2 Kg
Storage Temp	-40~80°C (-40~176°F)
Safety	CE / FCC class B / E Mark ,

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-OBDD	AIV-Q170V1FL-OBDD (with OBD II)
AIV-Q170V1FLS	AIV-Q170V1FLS (with CAN Bus , S SKU for install Sierra wireless module use)
AIV-Q170V1FLS-OBDD	AAIV-Q170V1FLS-OBDD (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 model only
- Sierra MC7455(America)(4G + GPS + Glonass)for s model 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