

# AIV-HM76V1FL

Fanless In-Vehicle system, Intel Celeron Core i3/i7 + HM76 with smart power system, GPS/4G/WiFi/Bluetooth, card option module



## Features

- Rugged fanless design
- Integrated Intel 3rd generation Core i ULV processors with HM76 chipset
- 2 x DDR3 SO-DIMM, up to 16GB
- Support CAN 2.0A/2.0B protocol and i-Button for driver ID
- VGA/HDMI/ output
- Variety Wireless Communication
- Combo connector to simplify touch monitor installation



## Specification

### System

CPU	Intel Core i7 3517UE / i3 3217UE / Celeron 1047UE
Chipset	Intel HM76
Memory	2 x 204-pin DDR3-1333 SO-DIMM 2GB pre-installed, up to 16GB

### Video

Graphic Controller	Integrated in Processors
Video Memory	DVMT
Video Interface	2 x HDMI type A connector 1 x dedicated combo connector (VGA/USB/audio/power)

### Storage

SATA	1 x SATA III port with power connector
CF	1 x Compact Flash Type I/II slot support UDMA 33
Disk Bay	1 x swappable 2.5" HDD bay with Anti-vibration / Anti-shock solution

### Communication

Ethernet	2 x Intel GbE chip via RJ-45 connector
USB	3 x USB 3.0 connector & 2 x JST pin header
Serial Port	3 x RS232, 1 x 422/485 (Select By GPIO)

### I/O

Expansion Slot	2 x Mini PCIe (For Optional 4G / Wifi module only)
GPIO	8-bit GPIO (4 In, 4 Out)
Antenna Hole	1 x SMA for GPS, 1 x SMA for 3.5G, 2 x SMA for WiFi 1 x SMA for Bluetooth
SIM	SIM Slot x 1, SIM card changeable without opening case
Security	Support I-Button for driver ID
CAN Bus	Support CAN 2.0A/2.0B protocol

### Software

OS Support	Windows 7(32/64 bit) / Embedded(32 bit) Fedora 17(32/64 bit)14 / Ubuntu 12.10(32/64 bit)
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## Others Feature

Audio	Audio Codec (Line-out & MIC)
Hardware Monitor	CPU voltage and temperature RTC battery voltage (Voltage, 12V/5V/3.3V)
WatchDog Timer	0~255 sec. software programmable
Indicator	Power / HDD/ Stauts LED

## Power Requirement

Power Input	9~32 V (+/-5%) single voltage input, 3 pole terminal block
Out Put Voltage	12V DC, 120W

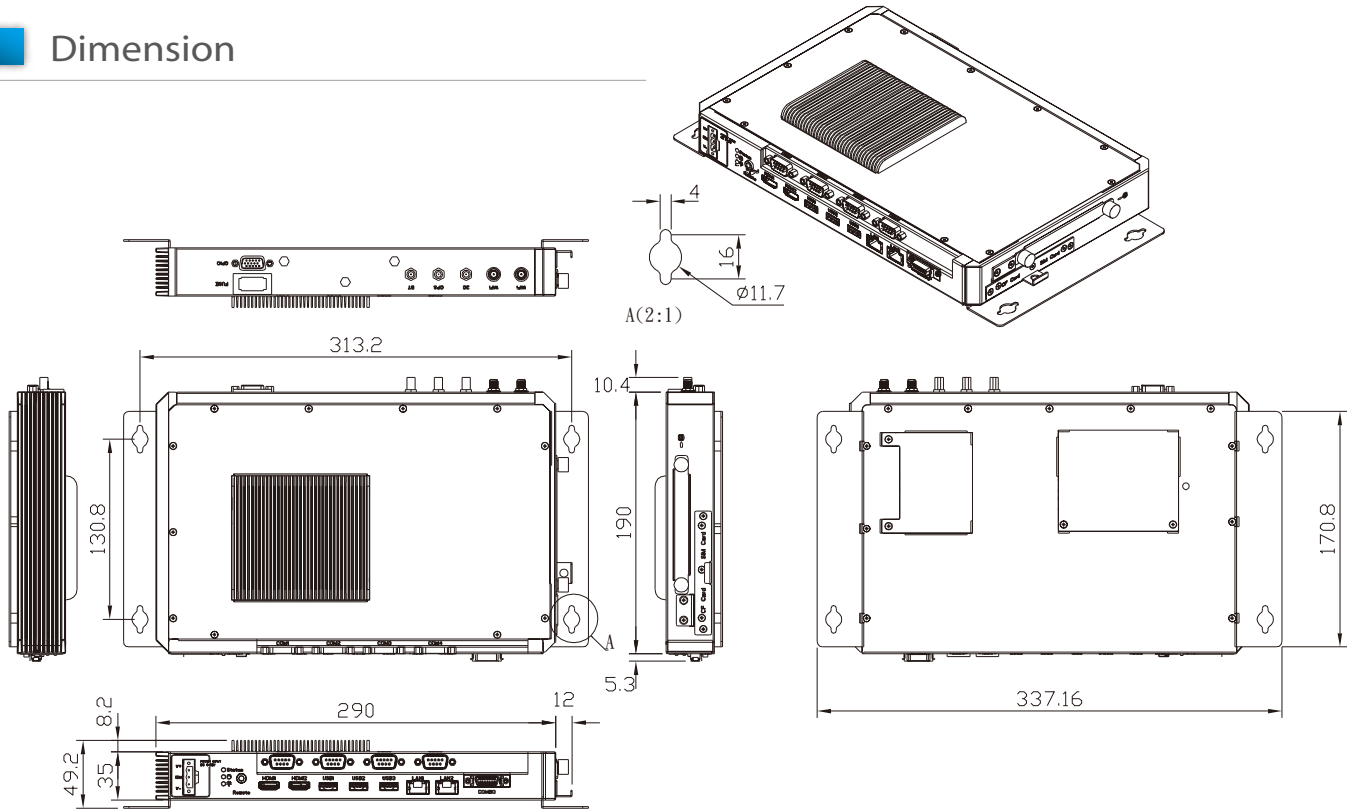
## Mechanical & Environment

Thermal Design	Fanless
Chassis Material	Sheet metal(Silver, printing color with Acrosser logo)
Vibration	IEC 60068-2-64, 5~500Hz, 3GRMS(CF/SSD), Operating with SSD
Shock	IEC 60068-2-27, 50G 500m/s <sup>2</sup> 11MS, Operating with SSD
Dimension	290mm x 190mm x 35mm
Weight	3 kg
Operating Temp.	0~60°C (32~140°F)
Storage temp.	-40~80°C (-40~176°F)
Relative Humidity	0~90% @ 40°C, non-condensing
Safety	CE, FCC class B , E-Mark

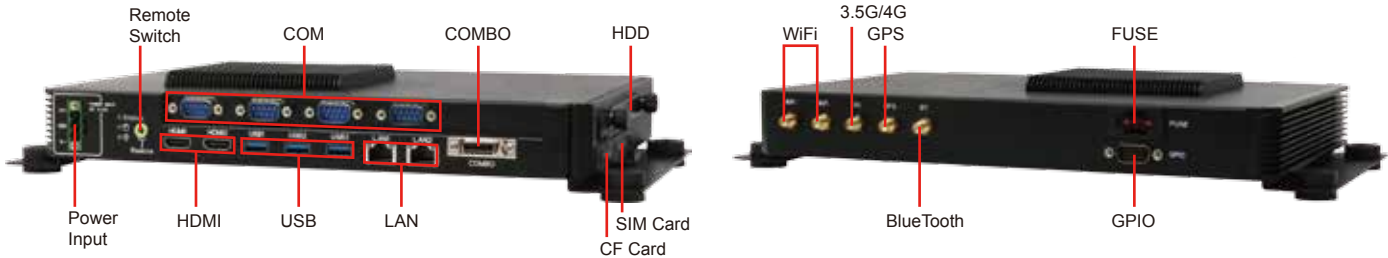
## Smart In-Vehicle Power Management

O/S Anti-Crash	Smart O/S boot/shut-down control by power subsystem
System boot / Shut-down delay	Delay time from 0 seconds to 60 minutes setting in BIOS
System boot fail retry	3 times boot fail retry
Power on/off switches	• System power switch by remote cable switch • System power input serial connection to car battery and ignition switch
Car battery protection	Low battery voltage monitoring and configurable auto shutdown low battery voltage level

## Dimension



## I/O Connectors



## Packing List

- 1 x AIV-HM76V1FL
- 1 x Quick Guide
- 1 x User Guide & System Driver CD
- 1 x Screw pack(2.5"HDD bracket: 4pcs)
- 1 x Terminal block female 3pin(for power input)
- 1 x Spare Fuse 10A
- 1 x GPIO/CAN/Driver ID DB15 Cable
- 1 x Remote Switch Cable
- 1 x One to Many Combo Cable(Combo to VGA/USB/Audio/DC Cable)

## Ordering Information

AIV-HM76V1FLC17 AIV-HM76V1FL with Intel Core i7 3517UE

AIV-HM76V1FLC13 AIV-HM76V1FL with Intel Core i3 3217UE

AIV-HM76V1FLCE1 AIV-HM76V1FL with Intel Celeron 1047UE

## Optional Modules

100070085	Sierra MC8705 with RF cable, Cable Antenna
100070067	WIESON ZYM-5020,RF Cable ,Cable Antenna (L=5M)
100070086	Intel Centrino N6205 802.11 a/b/g/n WiFi module, RF Cable, Antenna x 2
100070066	Qcom QBTM400-01,RF Cable, Antenna