

# AIV-HM76V0FL

Fanless In-Vehicle system, Intel Core i3/i5/i7 + HM76 with smart power system, GPS/3.5G/WiFi/Bluetooth option module



## Features

- Rugged fanless design
- Support Intel 3rd generation Core i 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/DVI-D output
- Variety Wireless Communication
- Combo connector to simplify touch monitor installation



## Specification

### System

CPU	Intel Core i7 3720QM / i5 3610ME / i5 3360M / i3 3120ME
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	1 x HDMI type A connector 1 x DVI-D connector 1 x dedicated combo connector (VGA/USB/audio/power)

### Storage

SATA	2 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	4 x USB 3.0 connector & 2 x JST pin header
Serial Port	2 x RS232 (1 x DB9, 1 x pin header) for Option 1 x RS232/422/485 (DB9, switch selectable)

### I/O

Expansion Slot	2 x Mini PCIe (For Optional 3.5G / 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 XP, Windows 7, Fedora 14, Ubuntu 10
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## Others Feature

Audio	Audio Codec (Line-out & MIC)
Hardware Monitor	CPU voltage and temperature
WatchDog Timer	1~255 sec. software programmable
Indicator	Power / HDD/ Status LED

## Power Requirement

Power Input	9~32 V (+/-5%) single voltage input, 3 pole terminal block
Power Consumption	Max 80W (i7 CPU)

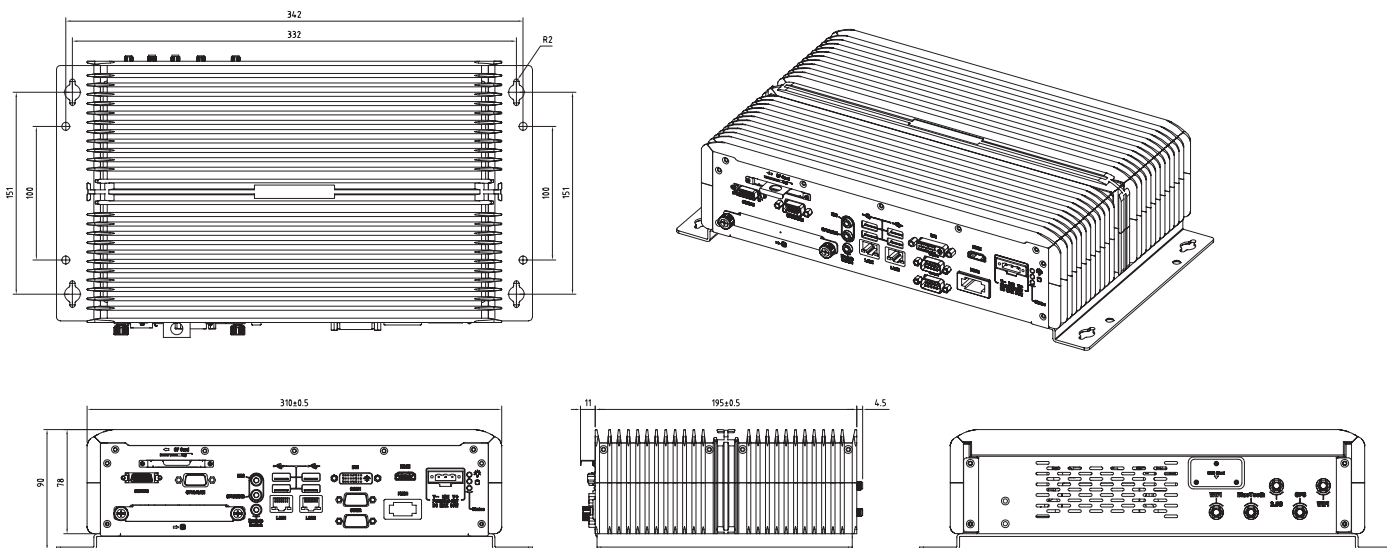
## Mechanical & Environment

Thermal Design	Fanless
Chassis Material	SECC + Aluminum heatsink
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	310mm x 195mm x 80mm
Weight	6 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	<ul style="list-style-type: none"> <li>• System power switch by remote cable switch</li> <li>• System power input serial connection to car battery and ignition switch</li> </ul>
Car battery protection	Low battery voltage monitoring and configurable auto shutdown low battery voltage level

## Dimension



## I/O Connectors



## Packing List

- 1 x AIV-HM76V0FL
- 1 x User Guide & System Driver CD
- 2 x Wall Mount Bracket
- 1 x Screw pack(2.5"HDD bracket: 4pcs)
- 1 x Terminal block female 3pin
- 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

## Ordering Information

AIV-HM76V0FLI71	AIV-HM76V0FL with Intel Core i7 3720QM
AIV-HM76V0FLI52	AIV-HM76V0FL with Intel Core i5 3610ME
AIV-HM76V0FLI51	AIV-HM76V0FL with Intel Core i5 3360M
AIV-HM76V0FLI31	AIV-HM76V0FL with Intel Core i3 3120ME

## 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