

AIV-HM76V0FL

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

In-Vehicle Computer



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 3360M / i3 3120ME
Chipset	Intel HM76
Memory	2 x 204-pin SO-DIMM DDR3 2GB DDR3 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 SATA III 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 Gbps Intel GbE chip via RJ-45 connector
USB	4 x USB3.0 connector & 2 x JST pin header
Serial Port	● 2 x RS232 (1 x DB9, 1 x pin header) ● 1 x RS232/422/485 (DB9, switch selectable)

I/O

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

Expansion

MiniPCIe	● MiniPCIe1 for 3.5G card (Reserve SIM interface) ● MiniPCIe2 for WiFi or Capture card
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Others Feature

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

Power Requirement

Power Input	9~32 V (+/-5%) single voltage input, 3 poles terminal block
Power Consumption	T.B.D

Software

OS Support	Windows XP, Windows 7, Fedora 14, Ubuntu 10
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Mechanical & Environment

Thermal Design	Fanless
Chassis Material	SECC + Aluminum heatsink
Dimension	310 x 80 x 195 mm
Weight	TBD
Operating Temp.	-20 ~ 60 °C (-4 ~ 140 °F)
Storage temp.	-40 ~ 80 °C (-40 ~ 176 °F)
Relative Humidity	0 ~ 90% @ 40C, non-condensing
Safety	CE, FCC class B , E-Mark

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

Optional (Purchase Separately)

100070084	1 x Sierra MC8705 with RF cable, Cable Antenna
100070067	1 x WIESON ZYM-5020,RF Cable ,Cable Antenna (L=5M)
100070068	1 x 802.11 b/g/n WiFi module,RF Cable, Antenna x 2
100070066	1 x Qcom QBTM400-01,RF Cable, Antenna

Ordering Information

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