

# ARK-VH200

## High Performance Intel® Atom™ Fanless Mobile DVR solution

**NEW**



### Features

- Intel® Atom™ D510 processor at 1.66 GHz
- 120/100 FPS D1 resolution video recorders
- Optional add-on miniPCIe card for wireless applications, e.g. WLAN or 3.5G module
- eSATA for large capacity external HDD
- In-vehicle power design and IGN support, compliant with ISO-7637-2
- 4 x USB 2.0 ports (2 x USB ports are lockable for secure connection)
- IP40 rating

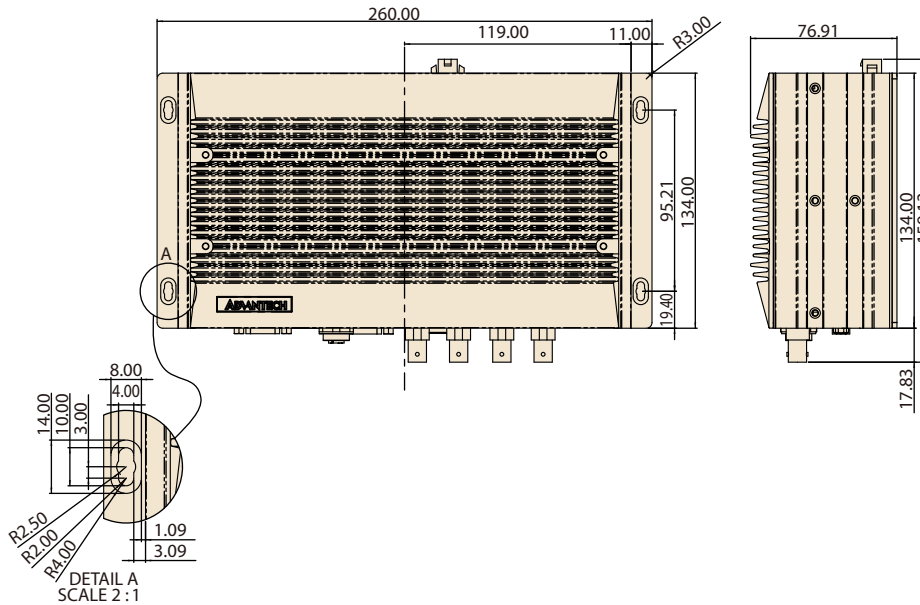


### Specifications

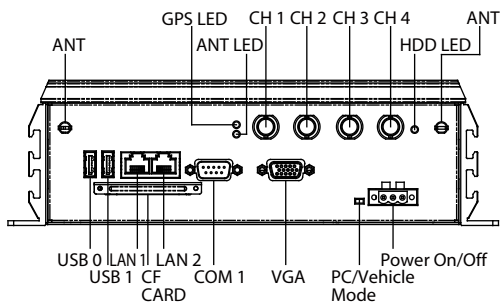
Processor System	CPU	Intel® Atom™ Dual Core D510
	Max. speed	1.66 GHz
	System Chipset	Intel™ ICH8-M Chipset
	Front Side Bus	667MHz
	BIOS	AMI 16 Mbit
Memory	Technology	DDR2 667 MHz
	Max. Capacity	2 GB
	Socket	1 x 200-pin SODIMM
Graphics	Chipset	Embedded Gen 3.5G+GFX Core, Intel Gen 3.5 DX9, MPEG2 Decode in HW
	Interface	CRT Interface 18-bit LVDS interface
Ethernet	LAN 1	10/100/1000 Mbps Ethernet controller, support Wake On LAN
	LAN 2	10/100/1000 Mbps Ethernet controller, support Wake On LAN
Audio	Interface	Line-out, Mic-in
IO interface	Serial Interface	2 x RS-232 port, 1 x RS-232/422/485 (Optional)
	USB Interface	4 x USB ports, Compliant with USB 2.0 (2 x USB ports are lockable)
Others	Digital I/O	4-bits GPIO
	GPS	on-board GPS
	eSATA	1 x eSATA
	Watchdog timer	255 levels timer interval, setup by software
Expansion	MiniPCIe	2 x MiniPCIe
	SIM Socket	1x SIM Socket
Video Recording	Video Compression	H/W H.264
	Video Input	4 x Ch Video Inputs, BNC
	Audio Input	4 x Ch Audio Inputs (Optional)
	video Format	CIF, 2CIF, D1 (704 x 480)
	Video Frame	Total 120/100 FPS (NTSC/PAL) @ D1 resolution
	SDK Support	VC++, .NET/BCB/VB
Storage	HDD	Supports drive bay space for 1 x SATA 2.5" HDD
	SSD	Supports CompactFlash socket for type I/II CompactFlash disk
Software support	Microsoft Windows	Vista, XP Professional, XP Embedded
	Linux	Fedora 9.0
Power requirement	Power Type	AT/ATX
	Power Input Voltage	9 V <sub>DC</sub> ~ 32 V <sub>DC</sub> , minimum support
	Ignition	Support ignition function
	PIC Firmware	Battery status check, and Off-delay support
	Minimum Power Inputs	36W
Mechanical	Power Adapter	AC to DC, DC19V/3.42A, 65W (Optional)
	Construction	Aluminum housing
	Mounting	Desk/wall-mounting
	Dimensions (W x H x D)	260 mm x 77 mm x 134 mm
Environment	Weight	3 kg (6.6 lb)
	Operating Temperature	with extend temperature peripherals CompactFlash disk: 0 ~ 60° C (32 ~ 140° F) with extend temperature peripherals 2.5-inch hard disk 0 to 45° C (32 ~ 113° F) , with air flow
	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
	Relative Humidity	95% @ 40° C (non-condensing)
	Vibration Loading During Operation	With CompactFlash disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis. With 2.5-inch hard disk: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis.
	Shock During Operation	With CompactFlash disk: 50 G, IEC 60068-2-27, half sine, 11 ms duration With hard disk: 20 G, IEC 60068-2-27, half sine, 11 ms duration
	EMC	CE/FCC Class A
	Safety Certifications	CE/FCC, CCC, BSMI
	In-vehicle Certificate	EN50155, E-Mark E13, ISO-7637-2

## Dimensions

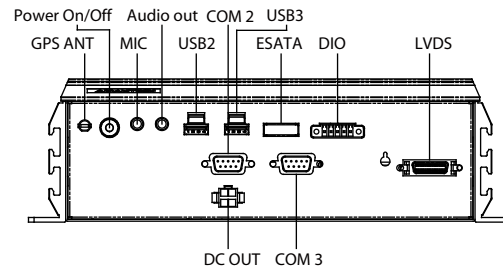
Unit: mm



### Front Panel External I/O Mechanical Layout/Drawing



### Rear Panel External I/O Mechanical Layout/Drawing



## Packing List

Part Number	Description
-	1 x ARK-VH200 Unit
1652004519	1 x 3-pole Phoenix Power BLOCK 5.0mm
-	1 x User Manual (Simplified Chinese)
-	1 x Utility CD

## Optional Items

Part Number	Description
1757002682	AC-to-DC Adapter DC19 V/3.42 A 65 W, 0 ~ 40°C for Home and Office Use
1700001524	Power Cable 3-pin 180 cm, USA Type
170203183C	Power Cable 3-pin 180 cm, Europe Type
170203180A	Power Cable 3-pin 180 cm, UK Type
1700008921	Power Cable 3-pin 180 cm, PSE Mark

## Ordering Information

Part Number	Description
ARK-VH200A-D5A1E	Intel Atom D510 1.6 GHz Compact Embedded Box IPC, w/ 2 x GbE, 4 x USB 2.0, 3 x COM, 2 x MiniPCIe, GPS, 4 x BNC, 4 x GPIO, Audio, w/o PoE