

ARK-5420VS

Intel® 3rd Generation Core™ i Processor
Fanless System with PCIe4 & PCI Slot



Features

- Supports Intel i5-3610ME 2.7GHz CPU
- Intel® HM76 PCH
- Supports wide temperature -25 °C ~ 60 °C
- Supports VGA & HDMI
- 1 x 2.5" HDD+1 x m-SATA
- Supports PCIe4 /PCI slot /Mini-PCIE
- Supports 9 ~ 36V wide range DC input

WebAccess/IVS



Specifications

System Chipset	CPU	Intel i5-3610ME Processor		
	Max Speed	2.7 GHz		
	L3 Cache	4 MB		
	Chipset	Intel HM76		
	BIOS	AMI SPI 64 Mb		
Memory	Technology	DDR3 1333/1600, non ECC		
	On board memory	4 GB on board		
	Socket	1 x 204-pin SODIMM (up to 8GB per DIMM) Note: SODIMM and HDD Tray has mechanism interferences, only 1 x HDD or 1 x CF can be used when you request to expand memory size		
	Maximum Capacity	12 GB		
Display	Chipset	Intel Integrated Graphics HD4000, support Direct x11		
	VGA	1 x DB15, max resolution up to 2048 x 1536		
	HDMI	1 x HDMI, support HDMI1.4 standard, max to 1920 x 1200 @ 60Hz		
	Display Option	Supports Dual independent display		
Ethernet	Controller	Intel I210-AT, 10/100/1000 Mbps		
	Interface	2 x RJ-45		
Storage	HDD	Support 1x 2.5"HDD + CF module (Optional function)		
	SSD	mSATA 32G		
I/O	USB	2 x USB3.0 + 3x USB 2.0		
	Serial Port	2 x DB9, RS232/422/485 with automatic flow control		
	DIO	1 x DB9, 8-bit		
	Audio	2 (1 x Line-Out, 1 x Mic-in)		
	LPT	1 x DB26 (Front panel, option)		
	PCIE	1 x PCIe4		
Expansion Slot	PCI	1 x PCI32 33Mhz Slot		
		1 x Internal Mini-PCle (Full-Size)		
LED & Button	LED	Power x 1/Storage x 1/Fault x 1		
	Button	Power on/off Switch x 1 Reset button x 1		
Power	Power Type	ATX/AT		
	Power Input Voltage	9 ~ 36V _{DC}		
Watchdog Timer	Output	System reset		
	Interval	Programmable 1~255 sec/min		
Environment	Temperature	Operating (With Industrial SSD)	Operating (with HDD)	Non-Operating
		-25 ~ 60 °C with 0.7m/S air flow	0 ~ 40 °C	-40 ~ 85 °C
	Humidity	95% @ 40 °C (non-condensing)		
	Vibration	With SSD: 2 Grms @ 5 ~ 500 Hz, random, 1 hr/axis With 2.5" HDD: 0.5 Grms @ 5 ~ 500 Hz, random, 1 hr/axis		
Shock	With SSD: 20G, IEC-68-2-27, half-sine wave, 11 ms duration			
	With 2.5" HDD: 10G, IEC-68-2-27, half-sine wave, 11 ms duration			
Mechanical Features	Dimension (W x H x D)	253 x 129 x 240 mm		
	Install	Desktop/Wall-mounting		
Certifications	EMC	CE/FCC Class A, CCC, BSMI		
	Safety	UL,CCC,BSMI		

WebAccess/IVS Function Description

Function	Specification	Description
Monitoring	Status display	<ul style="list-style-type: none"> Displays status and lists events of system login/logout, lost video, cameras status, web and remote connection, storage space, backup, sensors, and DO status
	e-Map	<ul style="list-style-type: none"> e-map layout shows the locations of video cameras, sensors and alarm devices, allowing you to control them and link actions to the surveillance system simultaneously; also provides a free tool for e-map editing
	Event log displaying	<ul style="list-style-type: none"> Real time display for event listings and automatic refresh of video events in ViewLog
	Screen Split	<ul style="list-style-type: none"> Full screen, 1, 4, 9, 10, 13, 16 Sequencer, (Able to change time interval)
	Camera layout	<ul style="list-style-type: none"> Assign name and adjustable font to each camera
	Quality adjustment	<ul style="list-style-type: none"> Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback.
Recording	Resolutions	<ul style="list-style-type: none"> Selectable recording resolutions (Depends on the capture card and IP camera selected)
	Compression format	<ul style="list-style-type: none"> H.264
	Recording modes	<ul style="list-style-type: none"> Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording
	Recording Quality	<ul style="list-style-type: none"> Adjustable recording quality
	Recording Frame	<ul style="list-style-type: none"> Adjustable recording frames of each camera and event
	Pre & Post Alarm Recording	<ul style="list-style-type: none"> Adjust pre-alarm and post-alarm recording time (Pre-alarm recording: 10 seconds, post-alarm recording: 100 seconds)
	Record file length	<ul style="list-style-type: none"> Adjustable file length for record searching segment
Search & Playback	Playback Speed	<ul style="list-style-type: none"> Single frame, 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, fast forward and rewind
	Playback Mode	<ul style="list-style-type: none"> Can show up to 4 cameras' playback images simultaneously
	Search Mode	<ul style="list-style-type: none"> Allows image searching by date, time, camera, and event. Calendar and time segment for day and time search. Selectable event time, event type, and camera IDs for event search
	Smart Search	<ul style="list-style-type: none"> Able to search archives for incidents, Smart search list
	Image Transfer	<ul style="list-style-type: none"> Able to save image as BMP, JPG and AVI format. Selectable day and time for video saving or using bookmark time record list directly.
	Bookmark	<ul style="list-style-type: none"> Stores many bookmarks to facilitate searching.
Data Storage	Recording Time	<ul style="list-style-type: none"> Recording length varies depending on recording quality, resolution, mode and activity Auto continuous recording-- oldest recorded data will automatically be overwritten when hard drive is full
	Backup	<ul style="list-style-type: none"> Local: HDD/CD-RW/DVD-RW selectable/External USB HDD/CD-RW/DVD-RW Backup mode: Auto (schedulable) and Manual to backup video file
	Storage Path	<ul style="list-style-type: none"> Adjust each storage path of each camera and reserve size. Setup each storage path to automatically delete the oldest file records
Alarm Notification	Event Action Plan	<ul style="list-style-type: none"> Flexible, multiple event action plan. Able to define multiple actions taken for event source. Event source: motion detected, sensor triggered, video signal breaks, login failed, system abnormal and backup disk full etc. Event action: DO output, PTZ Control, e-mail sending, SMS notify, video file record, snapshots, phone/mobiles notification, warning sounds, video group play and specific program execute etc.
	E-mail and Phone notification	<ul style="list-style-type: none"> E-mail notification with attached recording file or snapshot image of any event triggered E-mail and phone notification on multi event source. (with voice modem option)
	PTZ Activation	<ul style="list-style-type: none"> Supports alarm setup with PTZ preset location.
	Sensor and DO	<ul style="list-style-type: none"> Adjustable sensor, DO layout, schedulable
Network Control	IE Remote Control	<ul style="list-style-type: none"> View live video, event list, PTZ control, and do remote recording, remote playback, remote setting, e-map function and remote snapshot through IE browser Supports 1, 4, 9, 10, 13, 16 screen split
Operation	User Authority	<ul style="list-style-type: none"> Multi-level password protection and unlimited user accounts for logins and passwords.
	Authority setting	<ul style="list-style-type: none"> Allows authority settings of each user to each camera (local and remote monitor, playback, PTZ control, DO and e-map control, network connecting user numbers, with time limits, print and save function, control, etc.)
	PTZ Control	<ul style="list-style-type: none"> Embedded PTZ control panel: Pan & Tilt, zoom control and preset function. Supports most popular PTZ protocol
	Dynamic IP support	<ul style="list-style-type: none"> Built-in Web server. Supports dynamic IP.
	Language	<ul style="list-style-type: none"> English, Traditional Chinese, Simplified Chinese
	Others	<ul style="list-style-type: none"> Windows lockup Auto DVR login Auto reboot

Plus Package Benefits

WebAccess/IVS SDK
available for 3rd party CMS or
AP software integration



WebAccess/IVS
Intelligent Video Analytics (IVA)



Object Counting



People Counting



Camera Tamper



Optical Self Diagnostic



Motion Detection



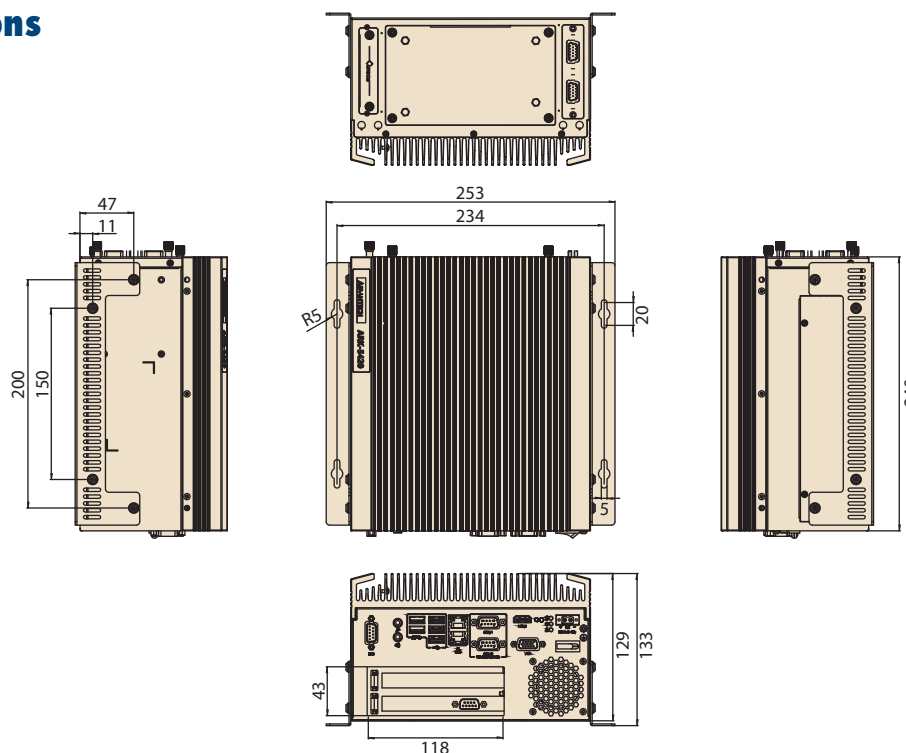
Forbidden Zone



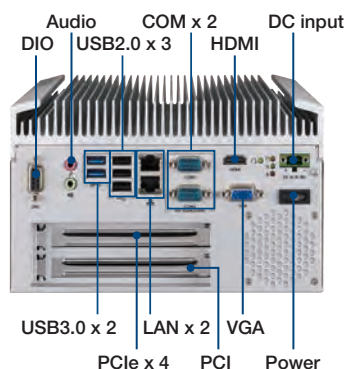
Demographic

Dimensions

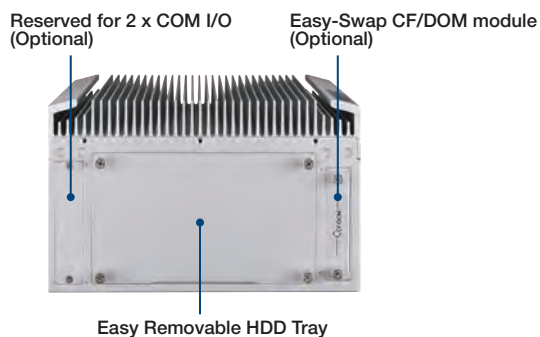
Unit: mm



Front View



Rear View



Ordering Information

Part No.	Description
ARK-5420VS-00A1E	Intel Core i5-3610ME 2.7GHz on-board 4Gb, VGA/HDMI, 2xGbE, 5xUSB ports, 2xCOM ports, audio, PCIe4 & PCI, 9 ~ 36 V _{DC} power with 2pin Phoenix connector, 4G RAM, mSATA 32G

Optional Item

Part Number	Description
1700001524	Power Cord 3P UL 10A 125V 180cm (for 65W)
170203183C	Power Cord 3P Europe (WS-010+WS-083) 183cm (for 65W)
17000021376-01	Power Cord 3P PSE 7A 125V 250cm (IEC60320-C5) (for 65W)

Packing List

Part No.	Description
-	ARK-5420VS
-	1 x Driver CD
1960059401N001	2 x Supporting-angels
1652002205	1 x 2-pin Terminal Block
96PSA-A65W19P2-2	Power adaptor

Embedded OS

Description
Windows 7 embedded 64bit