

# ARK-5261VS

## Intel® Celeron® Processor J1900 Fanless Embedded BOX PC with PCI/PCIe Expansion and Dual Mobile HDDs/SSDs



### Features

- Sealed construction with fanless operation, supports Intel® Celeron® Processor J1900 up to 2.41 GHz
- Supports 2 Giga LAN and 1 USB 3.0 + 5 USB 2.0
- Supports 4 RS-232/422/485 with Auto-flow control and COM 1 & 2 port with 5V/12V power
- Built-in 1 x PCIe, and 2 x PCI expansion slots or 3 x PCI expansion slots
- Supports 4 RS-422/485 Isolation module type
- Rubber anti-vibration card-holder for PC expansion boards
- Supports wide power range of 9 ~ 30V DC input
- Supports wide range operating Temperature of -20 ~ 60 °C
- Supports SUSIAccess and Embedded Software APIs

WebAccess/IVS



### Specifications

Processor System	CPU	Intel® Celeron® Processor J1900 2.0GHz		
	Max. Speed	2.41 GHz		
	BIOS	AMI 16 Mbit SPI BIOS		
Memory	Technology	Dual Channel DDR3L-1333 (Low power 1.35V)		
	Max. Capacity	Build-in 4GB memory, up to 8GB		
	Socket	2x 204-pin SO-DIMM		
Graphics	Chipset	Chipset integrated Intel HD graphics		
	VRAM	Shared System Memory up to 224 MB SDRAM		
	Interface	VGA: 2560 x 1600 @ 60Hz		
Ethernet	LAN1	10/100/1000 Mbps GigaLAN Controller, Intel I211, supports Wake on LAN		
	LAN2	10/100/1000 Mbps GigaLAN Controller, Intel I211, supports Wake on LAN		
Audio	Interface	Line-Out, Mic-in		
IO Interface	Serial Ports	Standard Type: 4x RS-232/422/485, COM 1 & COM 2 with 5V/12V power, support Auto-flow control		
	USB Interface	1 x USB 3.0, 4 x USB 2.0, 1 internal type A USB 2.0		
	Keyboard/Mouse	1 x PS/2 port, supports PS/2 mouse and keyboard		
	Parallel Port	Supports D-sub 25-pin connector		
	Digital I/O	Supports 8-bit digital IO (DB9 Connector)		
Other	Watchdog timer	255-level timer interval, setup by software		
Storage	HDD/SSD	Supports two drive bays space for SATA HDD/SSD 2.5 (9.5mm height only)		
	mSATA	Built-in 32G mSATA		
Expansion	PCI/PCIe Slot	2 PCI Slot, and 1 PClex1 Slot		
		Supports maximum 15W power for expansion		
		Supports maximum dimension of 99 mm (width) x 186 mm (length) for expansion PC board		
Software Support	Microsoft Windows	Windows 7/8.1, Win7/8.1 Embedded, Linux Fedora 19		
	Power Type	ATX / AT		
	Power Input Voltage	9 ~ 30 V <sub>DC</sub>		
	Minimum Power Input	9V @ 6.6A ~ 30V @ 2A		
Power Requirement	Power Adapter	AC-to-DC, 65 W DC19 V/3.4 A		
	Power Consumption	Idle	9.9 W (with Intel® Celeron® Processor J1900 2.0GHz and with Memory & SATA HDD)	
		Max.	12.9 W (with Intel® Celeron® Processor J1900 2.0GHz and with Memory & SATA HDD)	
Mechanical	Construction	Aluminum housing		
	Mounting	Desk/wall-mounting		
	Dimensions (W x H x D)	137 x 189 x 221 mm (5.39" x 7.44" x 8.70")		
	Weight	4.2 kg (9.24 lbs)		
Environment	Temperature	Operating (With Industry SSD)	Operating (With HDD)	Non-operating
		-20 ~ 60 °C with 0.7m/sec air flow (with 2 x Industrial SSD without PC expansion boards)	0 ~ 40 °C with 0.7m/sec air flow (with 1 x 2.5" HDD or mSATA without PC expansion boards)	-40 ~ 85 °C (-40 ~185 °F)
	Storage Temperature	-40 ~ 85 °C (-40 ~185 °F)		
	Relative Humidity	95% @ 40 °C (non-condensing)		
	Vibration Loading During Operation	With 2.5-inch HDD: 1 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis With SSD disk: 5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 Oct./min, 1 hr/axis		
	EMC	CE/FCC, CCC, BSMI		
	Safety Certifications	CCC, BSMI		

## WebAccess/IVS Function Description

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

## Plus Package Benefits

**WebAccess/IVS SDK**  
available for 3<sup>rd</sup> party CMS or  
AP software integration



**WebAccess/IVS**  
Intelligent Video Analytics (IVA)



Object Counting



People Counting



Camera  
Tamer



Optical Self  
Diagnostic



Motion Detection

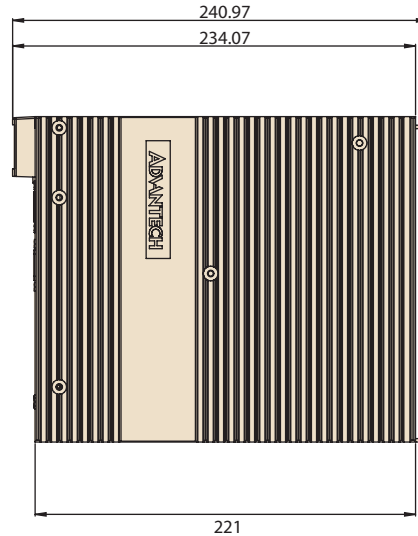
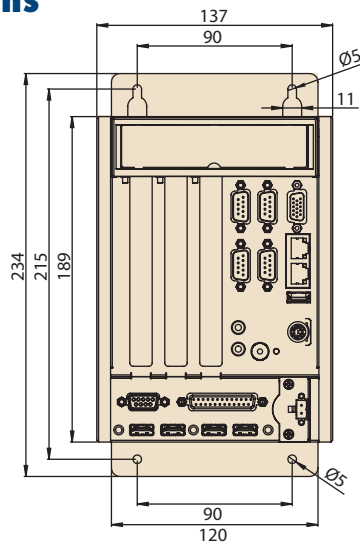


Forbidden Zone



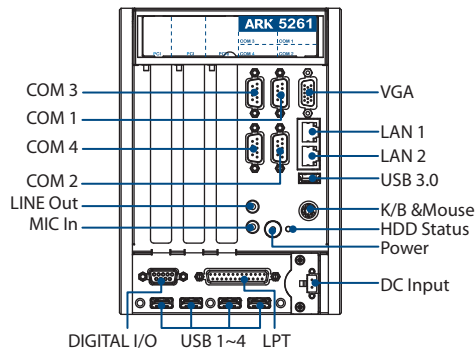
Demographic

## Dimensions

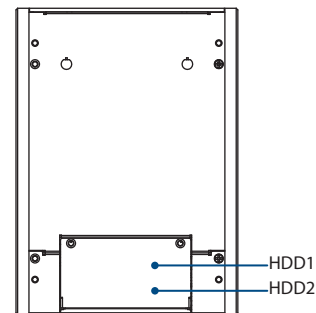


Unit: mm

## Front View



## Rear View



## Ordering Information

Part Number	Description
ARK-5261VS-J0A1E	Intel Celeron J1900 2.41GHz with build-in 4GB memory, 32G mSATA, VGA, 2xGbE, 6xUSB ports, 4xCOM ports, audio, PCIe1 & 2xPCI, 9 ~ 30 V <sub>DC</sub> power with 2pin Phoenix connector

## Optional Item

Part Number	Description
1700001947	Power cable 2-pin 180 cm, USA for ARK-338X
1700001948	Power cable 2-pin 180 cm, Europe for ARK-338X
1700001949	Power cable 2-pin 180 cm, UK for ARK-338X
1700021831-01	DP to DVI-D cable w/BKT
PCA-TPM-00A1E	TPM Module
96PSA-A120W24T2	ADP A/D 100-240V 120W 24V

## Packing List

Part Number	Description
-	1x ARK-5261VS Unit
2061526100	1 x Driver/Utility CD/Manual
2001526110	Startup Manual (English/Simple Chinese)
1960049826N001	1 x Mounting bracket upper
1960049827N001	1 x Mounting bracket lower
1990000505	3 x Shock proof rubber
96PSA-A65W19P2-2	AC-to-DC Adapter, DC19 V/3.42A 65 W, with phoenix power plug

## Embedded OS

Description
Windows 7 embedded 64bit