ARK-1123HVS

Intel® Celeron® Quad Core J1900 SoC with Dual HDMI and Dual GbE Fanless **Box PC**



Features

- Intel® Celeron® J1900 Quad Core 2.0 GHz SoC
- 1 x 2.5" SATA HDD/SSD Bay
- 2 x GbE for Multiple Internet Transmission
- 2 x Independent HDMI
- 1 x RS-232/422/485 (BIOS selection)
- 1 x Full-Size MiniPCle (ex. WLAN or WWAN module)
- 1 x Half Size MiniPCle (ex. mSATA)
- Optional VESA / DIN Rail / Wall Mounting kits
- Threaded DC jack design
- Supports SUSIAccess and embedded software APIs

WebAccess/IVS **Specifications**



| • | | |
|---------------------|----------------------------|---|
| | | ARK-1123HVS-00A1E |
| | CPU | Intel® Celeron™ Processor J1900 Quad Core 2.0 GHz SoC |
| Processor System | Frequency | 2.0 GHz (Up to 2.41 GHz w/ burst frequency enabled) |
| i iuutaaui ayattiii | L2 Cache | 2 MB |
| | BIOS | AMI EFI 64 Mbit (Default BIOS is supported for 64-bit OS installation, BIOS for 32-bit OS is supported by project) |
| | Technology | 4G DDR3L 1600MHz |
| Memory | Max. Capacity | 8 GB |
| | Socket | 1 x 204-pin SO-DIMM |
| | Chipset | Intel® Atom SoC integrated |
| | | DirectX* 11.1, OGL 3.0, OCL 1.1, OGL ES 2.0 |
| Graphics | Graphic Engine | Encode: H264, MPEG2/4, VC1, WMV9 |
| • | | Decode: H264, MPEG2 |
| | HDMI | 2 x Lockable HDMI connector, support up to 1920 x 1080 at 60Hz |
| Audio | Main System | ALC-888S, High Definition Audio. Line-out & Line-in |
| Ethornot | LAN #1 | 10/100/1000 Mbps Intel I210 GbE, support Wake on LAN |
| Ethernet | LAN #2 | 10/100/1000 Mbps Intel I210 GbE, support Wake on LAN |
| 1/0 1-4-4 | Serial Ports | 1 x RS-232/422/485 (BIOS selectable) |
| I/O Interface | USB Interface | 2 x USB 2.0 & 1 x USB3.0 |
| Other | Watchdog timer | 255-level timer interval, setup by software |
| F | Mini PCle #1 | 1 x Full-size Mini PCle, support WLAN or WWAN module |
| Expansion | Mini PCle #2 | 1 x Half-size Mini PCle, support Half-size mSATA module |
| 0: | 2.5" Drive Bay | 1 x 2.5" SATA HDD Bay (Max Height 7mm) |
| Storage | mSATA | 32G |
| 0.11.0 | Microsoft Windows | WES7, Windows 7, WE8S, Windows 8 (32-bit support by project) |
| Software Support | Linux | Support (by Project) |
| D D : . | Power Input Voltage | Single 12 V _{DC} |
| Power Requirement | Power Adapter | AC to DC, DC12 V/3 A, 36 W with threaded design |
| | Construction | Aluminum housing |
| Mechanical | Mounting | VESA/DIN Rail/Wall Mounting Kits (Optional) |
| | Dimensions (W x H x D) | 133.8 x 43.1 x 94.2 mm (5.27" x 1.7" x 3.71") |
| | Operating Temperature | With extended temperature SSD/mSATA/RAM : -20 ~ 60 °C with 0.7m/s air flow |
| | , , , | With standard temperature HDD/SSD/mSATA/RAM peripherals:0 ~ 40 °C with 0.7m/s air flow |
| | Storage Temperature | -40 ~ 85 °C (-40~185 °F) |
| Environment | Relative Humidity | 95% @ 40 °C (non-condensing) |
| | Vibration During Operation | With mSATA/SSD: 3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis With HDD: 0.5Grms, IEC 60068-2-64, random, 5~500Hz, 3 axes, 1hr/axis |
| | Shock During Operation | With mSATA/SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration With HDD: 10G, IEC 60068-2-27, half sine, 11 ms duration |
| Description | EMC | CE/FCC Class A, CCC, BSMI |
| Regulation | Safety | UL, CCC, BSMI, CB |
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WebAccess/IVS Function Description

| Monitoring Recording | e-Map Event log displaying Screen Split Camera layout Quality adjustment Resolutions Compression format Recording modes Recording Quality Recording Frame | 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 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 Real time display for event listings and automatic refresh of video events in ViewLog Full screen, 1, 4, 9, 10,13, 16 Sequencer, (Able to change time interval) Assign name and adjustable font to each camera Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback. Selectable recording resolutions (Depends on the capture card and IP camera selected) H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
|-----------------------|---|--|
| | Event log displaying Screen Split Camera layout Quality adjustment Resolutions Compression format Recording modes Recording Quality | to the surveillance system simultaneously; also provides a free tool for e-map editing Real time display for event listings and automatic refresh of video events in ViewLog Full screen, 1, 4, 9, 10,13, 16 Sequencer, (Able to change time interval) Assign name and adjustable font to each camera Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback. Selectable recording resolutions (Depends on the capture card and IP camera selected) H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
| | Screen Split Camera layout Quality adjustment Resolutions Compression format Recording modes Recording Quality | Full screen, 1, 4, 9, 10,13, 16 Sequencer, (Able to change time interval) Assign name and adjustable font to each camera Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback. Selectable recording resolutions (Depends on the capture card and IP camera selected) H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
| Recording | Camera layout Quality adjustment Resolutions Compression format Recording modes Recording Quality | Assign name and adjustable font to each camera Adjustable color control of Hue, Contrast, Brightness, and Saturation for preview, record and playback. Selectable recording resolutions (Depends on the capture card and IP camera selected) H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
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| Recording | Resolutions Compression format Recording modes Recording Quality | Selectable recording resolutions (Depends on the capture card and IP camera selected) H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
| Recording | Compression format Recording modes Recording Quality | H.264 Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
| Recording | Recording modes Recording Quality | Cyclic Recording, Non-Cyclic recording, Event Triggered Recording, and Scheduled Recording |
| Recording | Recording Quality | , |
| Recording | 0 , | |
| ű | | Adjustable recording quality |
| | - U | Adjustable recording frames of each camera and event |
| | Pre & Post Alarm Recording | Adjust pre-alarm and post-alarm recording time (Pre-alarm recording: 10 seconds, post-alarm recording: 100 seconds) |
| | Record file length | Adjustable file length for record searching segment |
| | Playback Speed | Single frame, 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x,16x, fast forward and rewind |
| | Playback Mode | Can show up to 4 cameras' playback images simultaneously |
| | Coarab Mada | Allows image searching by date, time, camera, and event. Calendar and time segment for day and time search. |
| Search & Playback | Search Mode | Calendar and time segment for day and time search. Selectable event time, event type, and camera IDs for event search |
| Statuti & Flayback | Smart Search | Able to search archives for incidents. Smart search list |
| | | Able to save image as BMP, JPG and AVI format. |
| | Image Transfer | Selectable day and time for video saving or using bookmark time record list directly. |
| | Bookmark | Stores many bookmarks to facilitate searching. |
| | Recording Time | 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 |
| Data Storage | Backup | 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 | Adjust each storage path of each camera and reserve size. Setup each storage path to automatically delete the oldest file records |
| | Event Action Plan | 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. |
| Alarm Notification | E-mail and Phone notification | 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 | Supports alarm setup with PTZ preset location. |
| | Sensor and DO | Adjustable sensor, DO layout, schedulable |
| Network Control | IE Remote Control | 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 |
| | User Authority | Multi-level password protection and unlimited user accounts for logins and passwords. |
| | , | Allows authority settings of each user to each camera (local and remote monitor, playback, PTZ control, DO and e-map |
| | Authority setting | control, network connecting user numbers, with time limits, print and save function, control, etc.) |
| Operation | PTZ Control | Embedded PTZ control panel: Pan & Tilt, zoom control and preset function. Supports most popular PTZ protocol |
| Operation | Dynamic IP support | Built-in Web server. Supports dynamic IP. |
| | Language | English, Traditional Chinese, Simplified Chinese |
| | Others | 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)







Tamper









Object Counting

People Counting

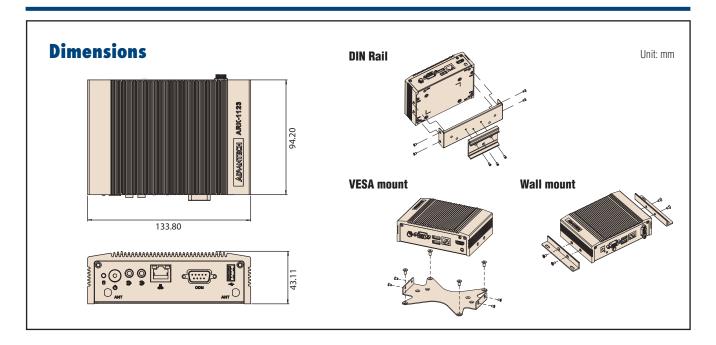
0

Optical Self Diagnostic

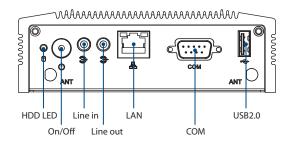
Motion Detection Forbidden Zone

Demographic

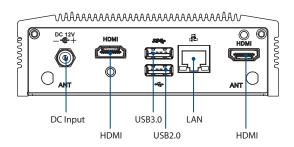
ARK-1123HVS



Front View



Rear View



Ordering Information

| Part Number | CPU | RAM | HDMI | GbE | USB 2.0 | USB 3.0 | RS-232/ 422/485 | Audio | MiniPCle | 2.5" HDD bay | mSATA | Operating Temperature |
|-------------------|------------------------|-----|------|-----|---------|---------|--------------------|---------------------|----------------------------|-----------------|-------|--------------------------|
| ARK-1123HVS-00A1E | Intel Celeron J1900 | 4G | 2 | 2 | 2 | 1 | 1 | Line in Line out | 1 Half size 1 Full size | 1 | 32G | -20 ~ 60 °C |

Packing List

| Description |
|--|
| 1 x ARK-1123HVS Unit |
| 1 x User Manual (Simplified Chinese) |
| 1 x AC to DC adapter DC12 V/3 A 36 W, 0 ~ 40 °C with threaded design |
| 1 x Power Cable 3-pin 180cm, USA type |

Embedded OS

| Description |
|---------------------------|
| Windows 7 embedded 64-bit |

Optional Accessories

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|---------------|--|
| Part Number | Description |
| 170203183C | Power Cable 3-pin 180cm, Europe type (For power adapter 1757004096-01) |
| 170203180A | Power Cable 3-pin 180cm, UK type (For power adapter 1757004096-01) |
| 1700008921 | Power Cable 3-pin PSE Mark 183cm (For power adapter 1757004096-01) |
| 1757004522-01 | AC-to-DC Wide Temperature Adapter, DC 12V/3.33A 40W, -20 °C ~ 70 °C |
| 1702002600-01 | Power cable 3-pin 183 cm, USA type (For power adapter 1757004522-01) |
| 1700018705 | Power cable 3-pin 183 cm, Europe type (For power adapter 1757004522-01) |
| 1700018704 | Power cable 3-pin 183 cm, UK type (For power adapter 1757004522-01) |
| 1700000237-01 | Power cable 3-pin 183 cm, PSE type (For power adapter 1757004522-01) |
| AMK-V003E | ARK-112X series VESA mounting kit |
| AMK-R001E | ARK-112X series DIN-rail mounting kit |
| AMK-W001E | ARK-112X series Wall mounting kit |