

ARK-RI2150L

Fanless Intelligent Video Controller



Features

- All-in-One x86-based Intelligent and Industrial Platform with Intel® Core™ i7 processors + Intel QM77 PCH
- 1 x DDR3/DDR3L, SO-DIMM supports up to 8 GB
- Supports up to 2 x GbE, 2 x USB 3.0, 2 x USB 2.0 and 2 x COMs ports
- Supports 1 x internal mSATA socket
- Supports Intel AMT8.0
- Integrate video capture, analysis
- Feature-rich Protocol, support .Net, c/c++, Java, VB
- Supports VMS/CMS and SDK for AP software integration
- Power saving mode and fanless design
- Supports UHF RFID Tag Detection (Optional)

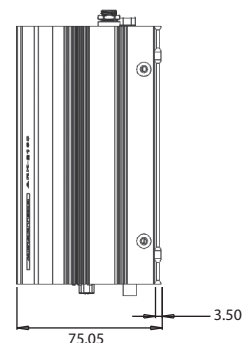
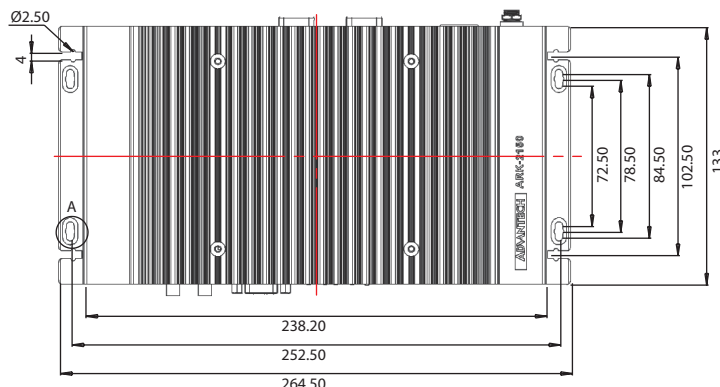
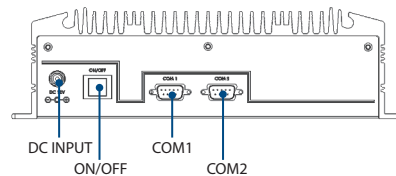
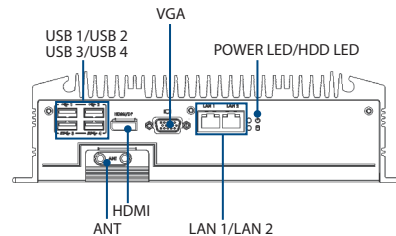
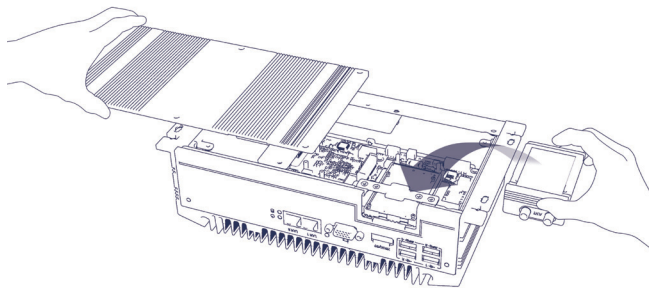
WebAccess/IVS



Introduction

ARK-RI2150L is a fan-less intelligent video controller powered by Intel® 3rd Generation Core i7-3517UE Dual Core 1.7 GHz processor, Intel QM77 express chipset and supports Intel AMT8.0 management engine interface. It also support power saving mode, fanless design. With changeable embedded modules and feature-rich protocol, ARK-RI2150L creates a high-performance open platform for easy integration and development in different applications. With Advantech® RFID module, ARK-RI2150L is an intelligent RFID controller and enables users to deploy manageable, easy-to-install, high-performance solutions.

Easy Installation



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	
	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

RFID 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



License Plate Recognition (Optional)

Specifications

Processor System	CPU	Intel ULV Core i7 3517UE
	Max. Speed	Dual Core 1.7 GHz (Max Turbo Frequency 2.8 GHz)
	L3 Cache	4 MB
	System Chipset	Intel QM77
	BIOS	AMI EFI 64Mbit
Memory	Technology	DDR3 1600MHz, DDR3L 1333 MHz
	Max. Capacity	8GB
	Socket	1 x 204-pin SO-DIMM
Graphic	Chipset	Intel QM77 Integrated GFX Gen 7
	Graphic Engine	DirectX11, OpenGL 3.1, and Open CL 1.1 Hardware decode acceleration: AVC/H.264, M PEG-2, VC-1
	VGA	Integrated 340.4MHz RAMDAC, Max resolution up to 2048 x 1536 @ 75Hz
	HDMI	Supports HDMI 1.4 for HD Video playback Max resolution up to 2560 x 1600 @ 60Hz on DisplayPort, Max resolution up to 1920 x 1200 @ 60Hz on HDMI
	Dual Display	VGA + HDMI or VGA + DisplayPort
I/O Interface	COM	2 x RS232
	USB	2 x USB 3.0 ports and 2 x USB 2.0 ports
	LAN	1 x 10/100/1000 Mbps Intel 82579LM Ethernet controller, support Wake On Lan 1 x 10/100/1000 Mbps Intel 82583V Ethernet controller, support Wake On Lan
Expansion	Mini PCIe	1 x Full-size Mini PCIe (Supports mSATA) 1 x Half-size Mini PCIe
Storage	SSD	Supports one internal mSATA socket
Power	Power Type	AT/ATX
	DC-input	12 V _{DC}
	Minimum Power Input	12 V, 4 A
	Power Adapter	AC to DC, DC12 V/5 A, 60 W
Software Support	Microsoft Windows	Windows 7, Windows 7 Embedded
Mechanical & Environmental	Construction	Aluminum housing
	Dimensions(W x H x D)	264.5 x 75.1 x 133.0 mm (10.41" x 2.96" x 5.24")
	Weight	2.35 kg
	Operating Temperature	Actual operational temperature may vary depending on used sensing module
	Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
	Operating Humidity	Relative Humidity 95% @ 40 °C (non-condensing)
Mounting	Din-Rail mounting, Desk/wall-mounting	

Ordering Information

Model Name	Description
ARK-RI2150L-UFAN0E	Intel ULV Core i7 3517UE/Win7E/64GB_mSATA/4GB DDR3

Optional Items

Part Number	Description
1757004349-01	AC to DC Adaptor, DC 12V/5A 60W, with lock, 0 ~ 40 °C, for Home and Office use
1757004522-01	AC-to-DC Adapter, DC 12V/3.33A 40W, -20 ~ +70 °C
1702002600	Power cable 3-pin 180cm, USA type, for 1757004522-01 and 1757004349-01
1702031801	Power cable 3-pin 180cm, UK type, for 1757004522-01 and 1757004349-01
1702002605	Power cable 3-pin 180cm, EU type, for 1757004522-01 and 1757004349-01
1700000237	Power cable 3-pin 180cm, with PSE, for 1757004349-01
ART-321E-00A1E	UHF RFID Two-Port Module (NCC only)