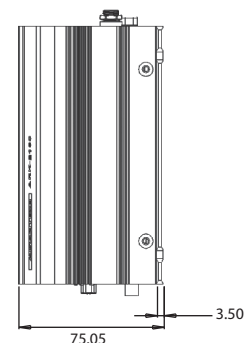# ARK-RI2150L

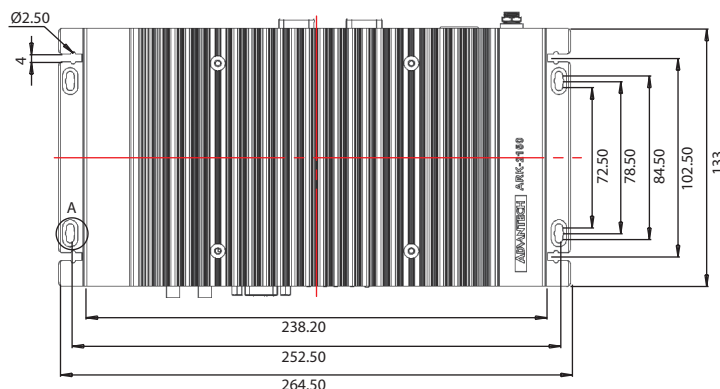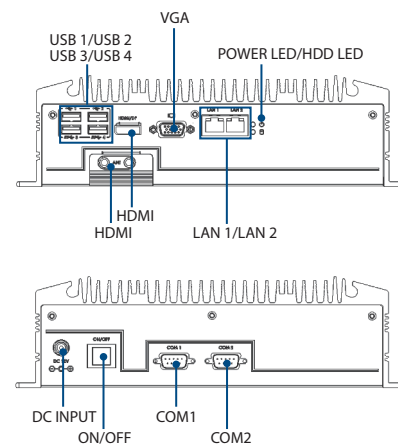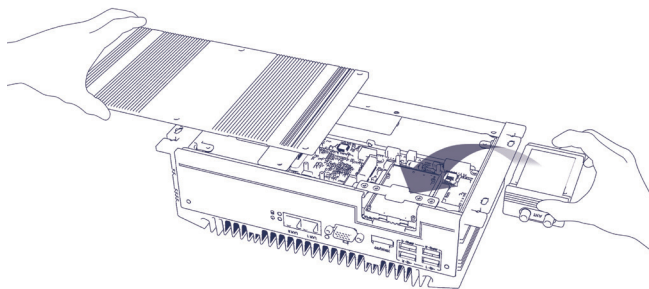## X86-based Intelligent IoT Controller

Features

- All-in-One x86-based Intelligent and Industrial Platform with Intel® Core™ i3/ i7 processors + Intel QM77 PCH

- Supports Intel AMT8.0

- Integrate video capture, analysis, and IoT info sensing

- Multiple IoT sensing module available for plug n play installation

- Feature-rich Protocol, support .Net, c/c++, Java, VB

- Supports Advantech Intelligent Video Recording Software and Standard API for IVA (Intelligent Video Analytics) Software Integration

- Power saving mode and fanless design

PowerView LISTED c(UL)us E180881 CE FCC

Introduction

The FCC compliant Advantech x86 based intelligent IoT controller, ARK-RI2150L, is powered by Intel® 3rd Generation Core i3-3217UE/i7-3517UE Dual Core 1.6 GHz/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 modulesand feature-rich protocol, ARK-RI2150L creates a high-performance open platform for easy integration and development in different applications. With Advantech® IoT sensing module, ARK-RI2150 is an intelligent IoT controller and enables users to deploy manageable, easy-to-install, high-performance solutions.The free-bundled demo package allows fast creation of custom applications via an API.It is easy to deploy thevideo recording software, PowerView,and IVA software which support 4 to 6 channels and enable the video surveillance system.PowerViewalso supports tribridrecording solutions for analog, HD-SDI and IP camera as well as CMS function.

Easy Installation

USB 1/USB 2
USB 3/USB 4
VGA
POWER LED/HDD LED
HDMI
HDMI
LAN 1/LAN 2

DC INPUT
ON/OFF
COM1
COM2

Ø2.50
4
A
72.50
78.50
84.50
102.50
133
238.20
252.50
264.50
ARK-3160

3.50
75.05

Specifications

Processor System	CPU	Intel ULV Core i3 3217UE / Intel ULV Core i7 3517UE
	Max. Speed	Dual Core 1.6 GHz / 1.7 GHz (Max Turbo Frequency 2.8 GHz)
	L3 Cache	3 MB / 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 11 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 portsand 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 PCIeer
Storage	SSD	Supports one internal mSATA socket
Power Requirement	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 (Optional)
Software Support	Microsoft Windows	Windows 7, Windows 7 Embedded, XP Professional, XP Embedded, WinCE 7.0
	Linux	Ubuntu 12.04
	Software Development Package	.Net, C/C++, Java, VB
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 temperture 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

Plus Package Benefits

Free-bundled RFID Demo Software

SDK

PowerView

Intelligent Video Recording Software

FlexibleEvent ActionPlan

PowerfulIE Browser Monitoring

FlexibleandDiverse Recording Modes

Optional IntelligentVideoAnalytics(IVA)

LicensePlate Recognition

ForbiddenZone

PeopleCounting

Ordering Information

Model Name	Description
ARK-RI2150L-UFAN0E	X86-based Intelligent Controller Powered by Intel ULV Core i7 3517UE 1.7 GHz processor