

ARK-RI2150L

Fanless Intelligent Video Controller



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.

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

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)

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

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