

The rear panel of the Zynq-7010 SoC development board features several connectors and labels. On the left, there is a DC IN jack labeled 'DC IN 1.2V 2.0A' and a VCC/GND header. Below these are an SDIO header and a USB connector. In the center, there are four COM headers labeled COM 4, COM 3, COM 2, and COM 1. On the right, there are two RJ45 ports, a USB port, and a PS/2 port.

4-ch isolate digital input and 4-ch isolate digital output with 2.5KV isolation (2150F)

2.5 Inch SATA HDD (up to 12.5mm height) & 1x mSATA

AMI 64-Mbit SPI Flash BIOS

2x Full-Size Mini-PCIE & 1x half-size Mini-PCIE (one supports mSATA)

Software API: iManager and SUSIAccess - Remote Device Management technology

Controller: Intel HD Graphics 4000

Resolution: VGA: Supports up to 2048x1536 with 32-bit color at 75 Hz

HDMI/Display Port: HDMI supports HDMI 1.4a spec. w/audio up to 1920x1200 at 60 Hz. Display Port supports Display-Port* 1.1a specs w/audio up to 2560x1600 at 60 Hz.

DVI-D: Supports DVI-D, up to 1920 x 1200

Dual Display: VGA & HDMI/DP, VGA & DVI-D, HDMI/DP & DVI-D

Triple Display: VGA, HDMI/DP & DVI-D

DC 12V 4A (2150L) DC 12V ~ 24V, 4A-2A (2150F)

With Industrial Grade SSD/Cfast: -20 ~ 60° C (-4~140° F), with air flow, speed=0.7 m/sec

With 2.5-inch hard disk 0 to 45° C (32~113° F), with air flow, speed=0.7 m/sec

95% @ 40° C (non-condensing)

264.5 x 133.0 x 75.1 (10.41) x (5.24) x (2.96)

6.17 lbs.

SIB-A2150, an intelligent, fanless embedded system powered by Intel Core i3 3217UE/i7 3517UE Dual Core high performance processor with multiple I/O interface. SIB-A2150 is the first one high performance product in ARK-2000 series. The new generation Intel Core i processor brings 15% improvement on processing power and 60% on 3D graphics performance than previous generation Intel Core i processors. These high performance platforms provide energy-efficient and environmentally responsible solutions, and serve applications targeted at surveillance, machine automation, kiosks, and medical imaging; and they operate reliably in -20 ~ 60° C environments! Rugged & Multifunctional Design SIB-A2150 is powered by Intel Core i3 3217UE 2.6GHz / i7 3517UE 1.7GHz dual core processors in a Manufacture, rugged-design embedded box PC. All models are fanless, and highlight various quality features including wide-input power supplies from 12V to 24V, wide temperature range -20 ~ 60° C, diverse expandability options, and structural strengthening. SIB-A2150 enlarges the surface of the top cover and conductive cylinder to create maximum cooling effects for optimized cooling efficiency. It also provides rich I/O interfaces: up to 4 x Intel GbEs, 3 x USB 3.0, 4ch isolated digital input, 4ch isolated digital output, and supports high capacity 2.5" HDD up to 1 TB. The RS-232/422/485 COM port mode can easily be changed via BIOS setting. Multiple Display Support SIB-A2150 supports multiple display types: VGA, HDMI/Display Port or DVI-D display. HDMI and Display Port are designed in the same connector. It can support different panels by changing external cables. The graphic engine is Intel HD Graphics 4000 with DXVA (full AVC/VC1/MPEG2 Hardware Acceleration), OpenGL* 3.0 and DirectX 11 support. SIB-A2150 supports triple independent display. Built in Intelligent Management Tools - iManager & SUSIAccess iManager provides a valuable suite of programmable APIs such as multilevel watchdog, hardware monitor, system restore, and other user-friendly interface. iManager is an intelligent self-management cross platform tool that monitors system status for problems and takes action if anything is abnormal. iManager offers a boot up guarantee in critical, low temperature environments so systems can automatically recover when voltages dip. iManager makes the whole system more reliable and more intelligent. SIB-A2150 also supports Manufacturer's own SUSIAccess, which provides easy remote management so users can monitor, configure, and control a large number of terminals to make maintenance and system recovery simpler.

Specifications

Processor:	
Intel Core Processor i7 3517UE 1.7Ghz or i3 3217UE 1.6GHz	
Clock Speed:	
1.7 GHz	
Real Time Clock:	
Memory	
RAM type:	
Up to 8GB DDR3 SODIMM	
BIOS/ Bootloader:	
AMI BIOS	
Primary Flash:	
CFAST	
Secondary Flash:	
1x 2.5 Inch SATA SSD/HDD (up to 12.5mm height) & 1x mSATA	
Primary I/O	
GPIO:	
Up to 8-bit DIO	
Video Out:	
VGA & HDMI/DP (DVI-D Optional)	
Audio:	
HD Line-in & Line out & Mic-in	
Ethernet:	
Up to 4x Gig Ethernet with RJ-45	
USB:	
Up to 3x USB 3.0 & 4x USB 2.0	
Serial Ports:	
Up to 4x RS-232/422/485	
Watchdog:	
Secondary I/O	
UART:	
Keypad:	
PS/2:	
Expansion	
Bus:	
2x Full-Size Mini-PCIe & 1x half-size Mini-PCIe	
Analog	
ADC:	
D/A:	
Dimensions	
Dimensions:	
10.41 × 2.96 × 5.25 in	
Weight:	
6.17 lb	
Dimensions Misc.:	
264.5 x 133.0 x 75.1 (10.41) x (5.24) x (2.96)	
Power Requirements	
Voltage:	
12 V	
Typical Current:	
4 A	
Power Misc.:	

DC 12V 4A (2150L) DC 12V ~ 24V, 4A-2A (2150F)

Environmental
Low Operating Temperature:
-20 C

High Operating Temperature:
60 C

Upper Operating Humidity:
95%

Environmental Misc.:

With Industrial Grade SSD/Cfast: -20 ~ 60° C (-4~140° F), with air flow, speed=0.7 m/sec

With 2.5-inch hard disk 0 to 45° C (32~113° F), with air flow, speed=0.7 m/sec

Pricing
SIB-A2150-F60-R

ARK-2150F-S6, Intel® i3 3217UE, 4xCOM, 3xUSB3, 3xUSB2, 4xGig LAN, 8xDIO, Audio, VGA, HDMI, DVI-D
\$1,360.00

Order:

0

Parent Product:

SIB-A2150-F70-R

ARK-2150F-S7, Intel® i7 3517UE, 4xCOM, 3xUSB3, 3xUSB2, 4xGig LAN, 8xDIO, Audio, VGA, HDMI, DVI-D
\$1,645.00

Order:

0

Parent Product:

SIB-A2150-L40-R

ARK-2150L-S4, Intel® Celeron™ 1047UE, 2x COM, 2xUSB3, 4x USB2, 2x GigLAN, 8DIO, VGA, HDMI/DP
\$787.00

Order:

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Parent Product:

SIB-A2150-L60-R

ARK-2150L-S6, Intel® i3 3217UE, 2x COM, 2xUSB3, 4x USB2, 2x GigLAN, 8DIO, VGA, HDMI/DP
\$1,232.00

Order:

0

Parent Product:

SIB-A2150-L70-R

ARK-2150L-S7, Intel® i7 3517UE, 2x COM, 2xUSB3, 4x USB2, 2x GigLAN, 8DIO, VGA, HDMI/DP
\$1,469.00

Order:

0

Parent Product:

Power Supply:

DC 12V 4A (2150L) DC 12V ~ 24V A-2A (2150F)

Cables & Adapters:

CAB-80-001-1

CABLE POWER 110V AC GND OUTLET

\$3.00

Disk Interface:

2.5 Inch SATA HDD (up to 12.5mm height) & 1x mSATA

Wireless:

Optional

Source URL: <https://www.emacinc.com/content/sib-a2150-0>