AIB-IMX6

BOX System with Freescale i.MX6

Quick Reference Guide

2nd Ed – 19 September, 2018

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FCC Statement



THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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1. Getting Started

1.1 Safety Precautions

Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

1.2 Packing List

- 1 x AIB-IMX6
- 2 x Mounting Bracket
- 4 x Wall mount Screw
- 2 x mini PCle Screw
- 1 x 60W Power Adapter (12V/5A)
- 1 x Power cord



If any of the above items is damaged or missing, contact your retailer.

1.3 System Specifications

System					
Mother Board					
CPU	Freescale i.MX6 Cortex-A9 DL or Quad CPU				
CPU Cooler (Type)	Passive cooling				
Memory	1GB DDR3 (Optional 2GB)				
-	12~26V DC input, typical 12V DC brownout detection				
Power Supply	Optional Powered LAN (IEEE 802.3at)				
Adapter	AC/DC adapter 12V				
Wireless LAN	Optional mPCIe WIFI (RTL8188 with USB interface)				
Operating System	Android 4.4.2 or 6.0 X & Linux				
Expansion Card	mPCle WIFI module (TBD)				
SATA	Optional SATA connector & Power(5V)				
	I/R Extender interface(Jack), co-layout with onboard I/R sensor				
I/R Extender (Optional)	(38kHz Vishay receiver module with an I/R frequency of 940nM.				
	Supports NEC control codes and pairing)				
Watchdog/RTC	• I2C RTC ISL1208				
Battery for RTC	• CR2032 x 1				
Audio codec	Optional Audio codec WM8962				
Storage					
Solid State Drive	eMMC 4GB				
SDXC	Micro SD socket x 1				
Panel					
LCD Control Board	Optional dual channel 24bit LVDS interface				
B/L Inverter/Converter	 Optional LED driver control (12V,GND,ENBKL,PWM,5V) 				
External I/O					
Serial Port	D-Sub9 debug x1				
USB Port	USB2.0 Type A x 2 (Double deck)				
Video Port	HDMI with screw lock				
LAN Port	• 10/100/1000 LAN RJ45 x 1, Optional Powered LAN support (IEEE				
LANTOIT	802.3at)				
Wireless LAN Antenna	Optional WIFI antenna x 1				
Switch	Hidden reset button x 1				
Indicator Light	Power LED x 1, WIFI Status LED x 1				
External I/R(Optional)	Jack for I/R extender cable, co-design with on-board I/R sensor				
Internal I/O					
USB Port	• USB2.0 x 1 (wafer)				

AIB-IMX6

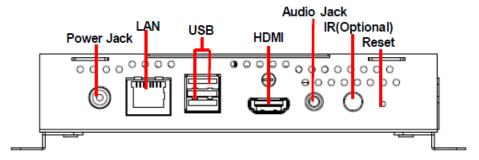
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Operating Temperature • -40 ~ 70 degree Operating Humidity • 0 ~ 90%	Mechanical Shock Test	As Avalue standard		
Operating Humidity • 0 ~ 90%	Drop Test	As Avalue standard		
	Operating Temperature	• -40 ~ 70 degree		
Storage Temperature -40 ~ 85 degree	Operating Humidity	0 ~ 90%		
To to do dogree	Storage Temperature	-40 ~ 85 degree		



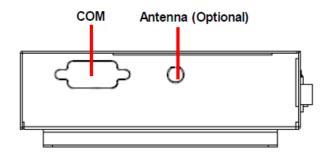
Note: Specifications are subject to change without notice.

1.4 System Overview

1.4.1 Rear View

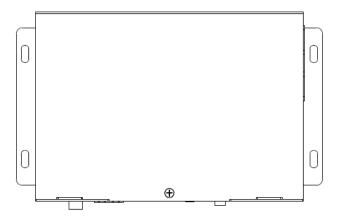


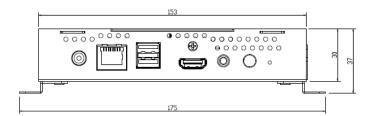
1.4.2 Right View

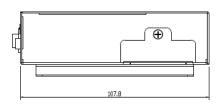


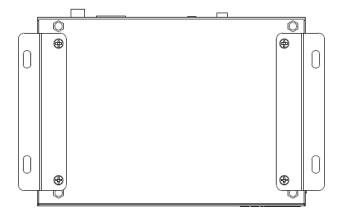
Connectors				
Label	Function	Note		
IR	IR connector (Optional)			
Audio Jack	Audio Jack			
HDMI	HDMI connector			
USB	2 X USB2.0 connector			
COM	Serial port connector	D-sub 9-pin, male		
LAN	RJ-45 Ethernet			
Antenna	Antenna Mounting (Optional)			
Reset	Reset button			
Power Jack	Power-in connector			

1.5 System Dimensions









(Unit: mm)

2. Build and install Android image

Here you can find instruction to setup development environment for Android source code for RSC-IMX61 and the way to install it on eMMC. With this guideline, user will be able to setup the system easily and test all the functions with the system.

2.1 Setup Build Environment

Please following command below to install OpenJDK7 on Ubuntu 16.04.

```
# sudo add-apt-repository ppa:openjdk-r/ppa# sudo apt-get update# sudo apt-get install openjdk-7-jdk
```

Open /etc/profile.

sudo gedit /etc/profile

Enter below in the end of file.

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64

export JRE_HOME=${JAVA_HOME}/jre

export CLASSPATH=.:${JAVA_HOME}/lib:${JRE_HOME}/lib

export PATH=${JAVA_HOME}/bin:$PATH
```

source /etc/profile

Please refer to hyperlink below to setup development environment Initializing a Build Environment

2.2 Download source code and MFG tool

Please connect to Avalue FAE(<u>jerry_lee@avalue.com.tw</u>)

2.3 Compiler Android Source code

Please follow the instructions below to compile Android source code.

cd FSL-Android

./run.sh -j4

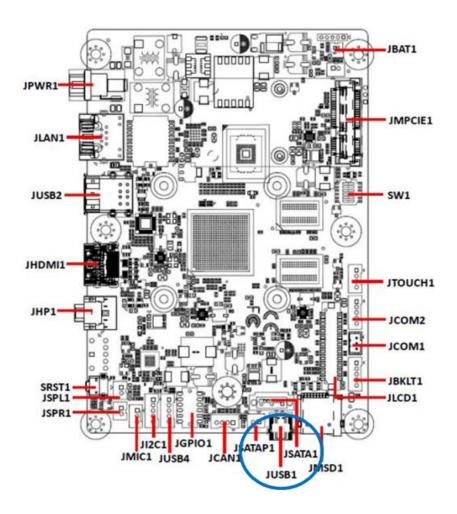
You can find all image files in path FSL-Android/out/target/product/imx6

Image File	Description
boot-imx6dl.img	Kernel image file for Dual Lite
boot-imx6q.img	Kernel image file for Quad core
recovery-imx6dl.img	Recovery image file for Dual Lite
recovery-imx6q.img	Recovery image file for Quad core
system.img	System image file
recovery.img	Recovery image file
u-boot-imx6dl.imx	Bootloader for 1G Dual Lite
u-boot-imx6dl2g.imx	Bootloader for 2 G Dual Lite
u-boot-imx6q.imx	Bootloader for Quad core

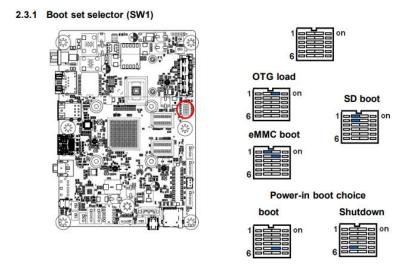
Please copy all of them to path RSC-IMX61-6.0.1\Image\RSC-IMX6\android\6.0.1\Factory

2.4 Install Android image into eMMC

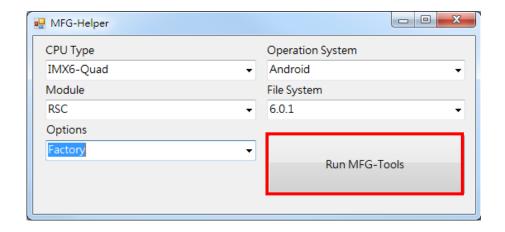
Connect RSC-IMX61 to computer through JUSB1 by mini USB.



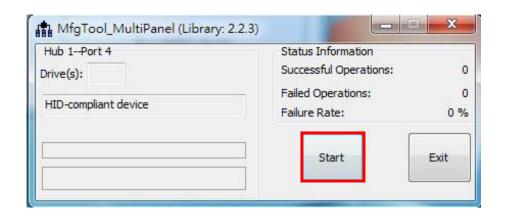
2. Set the jumper to OTG mode.



3. Execute "MFG-Helper.exe". Select the items as the blow picture and click "Run MFG-Tools".



4. When MFG tool show "HID-compliant device", click "Start" to start to flash image.



AIB-IMX6

When it show "Done", click "Stop" and "Exit" to finish.



- 6. Turn off the power.
- 7. Set the jumper to "eMMC boot" and power on to boot Android.

