IEI Integration Corp.

MODEL:

AFL4-W07-RK3566

7" Fanless Panel PC with RK3566, 2/4GB LPDDR4/4X, 16/32GB eMMC, 1xUSB2.0, 1xUSB3.0, 2xRS-232/422/485, HDMI, 1xRJ45, 12V DC IN, PCAP touch, Debian10/Android12, RoHS.

User Manual

Rev. 1.00 - October 29, 2024

RoHS Lead Free

Revision

Date	Version	Changes
October 29, 2024	1.00	

Safety Instructions

en Warning! Read the user manual before connecting the system to the power source.

de Vorsicht! Bitte lesen Sie die Bedienungsanleitung, bevor Sie das System an eine Stromquelle anschließen.

fr Attention! Avant de brancher le système à la source d'alimentation, consultez le mode d'emploi.

it Avvertenza! Consultare il manuale utente prima di collegare il sistema all'alimentatore.

es Atención! Lea atentamente este manual del usuario antes de operar la fuente de alimentación.

zh 警告！在將系統連接到電源之前，請仔細閱讀使用手冊。

cn 警告！在将系统连接到电源之前，请仔细阅读使用手册。

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en Warning! To prevent the system from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual.

de Vorsicht! Um eine Überhitzung des Systems zu vermeiden, betreiben Sie es ausschließlich im zulässigen Betriebstemperaturbereich. Dieser ist in der Bedienungsanleitung vermerkt.

fr Attention! Pour éviter la surchauffe du système, ne l'utilisez pas dans une zone dont la température dépasse les limites décrits dans le mode d'emploi.

it Avvertenza! Per evitare che il sistema si surriscaldi, non utilizzarlo in aree che superino la temperatura massima d'esercizio descritta nel manuale utente.

es Atención! Para evitar el excesivo calentamiento del sistema, no opere en las condiciones de temperatura superior a lo recomendado en este manual del usuario.

zh 警告！為防止系統過熱，不要在超過使用手冊上記載的產品工作溫度範圍之外操作此系統。

cn 警告！为防止系统过热，不要在超过使用手册上记载的产品工作温度范围之外操作此系统。

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en Warning! Use only the adapter and power cord approved for this system. Use of another type of adapter may risk fire or explosion. Please refer to the user manual for the power adapter specifications.

de Vorsicht! Nur zugelassene Netzteile und Netzkabel dürfen verwendet werden. Die Benutzung von anderen Netzteilen kann einen Brand oder eine Explosion zur Folge haben. Prüfen Sie die jeweiligen Spezifikationen in der Bedienungsanleitung.

fr Attention! Utilisez exclusivement le câble d'alimentation et l'adaptateur homologués pour ce système. L'utilisation d'un autre type d'adaptateur risquerait de provoquer un incendie ou une explosion. Veuillez référer au mode d'emploi pour les spécifications de l'adaptateur d'alimentation.

it Avvertenza! Utilizzare solo l'adattatore e il cavo di alimentazione approvati per questo sistema. L'uso di un altro tipo di adattatore può causare rischio d'incendio o esplosione. Si prega di fare riferimento al manuale utente per le specifiche sull'alimentazione.

es Atención! Utilice solamente el adaptador de corriente alterna (CA) con Marcas Conformidad otorgadas. Cualquier otro adaptador no otorgado aumenta el riesgo de explosión o incendio. Por favor consulte el manual del usuario para las especificaciones del adaptador de alimentación.

zh 警告！只能使用經過認證、適用於本系統的電源變壓器與電源線。使用不適用的電源變壓器將可能導致火災或爆炸。電源變壓器規格請參考使用手冊。

cn 警告！只能使用经过认证，适用于本系统的电源适配器与电源线。使用不适用的电源适配器将可能导致火灾或爆炸。电源适配器规格请参考使用手册。

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en Warning! Ultimate disposal of this product should be handled according to all national laws and regulations.

de Vorsicht! Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.

fr Attention! La mise au rebut ou le recyclage de ce produit sont généralement soumis aux lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.

it Avvertenza! Lo smaltimento di questo prodotto deve essere eseguito secondo le leggi e i regolamenti locali.

es Atención! La disposición final de residuos de este producto se debe cumplir con las normativas y leyes del país.

zh 警告！本產品的廢棄處理應根據該國家的法律和規章進行。

cn 警告！本产品的废弃处理应根据该国家的法律和规章进行。

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Manual Conventions

WARNING

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously.

CAUTION

Cautionary messages should be heeded to help reduce the chance of losing data or damaging the product.

NOTE

These messages inform the reader of essential but non-critical information. These messages should be read carefully as any directions or instructions contained therein can help avoid making mistakes.

HOT SURFACE

This symbol indicates a hot surface that should not be touched without taking care.

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1

Introduction

1.1 Overview

Figure 1-1: AFL4-W07-RK3566 Panel PC

The AFL4-W07-RK3566 is a 7-inch panel PC equipped with Rockchip RK3566 processor.

The Rockchip RK3566 is an ARM processor featuring quad-core Cortex-A55, a Mali-G52 GPU, and a 1TOPS NPU. The system comes with options for 2GB or 4GB of onboard memory and 16GB or 32GB of eMMC storage, with the choice of running either Debian or Android as the operating system.

A serial port and two external USB ports ensure easier connection with various external peripherals.

A Gigabit Ethernet port, along with an optional WIFI 5/6 and 4G/5G module, provides multiple communication methods.

1.2 Model Variations

The model number and model variation are listed below.

Model	Configure	OS
AFL4-W07-RK3566- R10	4GB Memory/32GB eMMC	Debian10
AFL4-W07-RK3566-A-R10	4GB Memory/32GB eMMC	Android12
AFL4-W07-RK3566-2/16GB-R10	2GB Memory/16GB eMMC	Debian10

Table 1-1: Model Variation

1.3 Features

The AFL4-W07-RK3566 features are listed below:

- Rockchip RK3566 Platform
- New narrow bezel design
- Anti-glare and anti-UV PCAP
- Support gloved and wet Hand operation
- Support WiFi5/ 6 and Bluetooth®5.0 (optional)

1.4 Front Panel

The front side of the AFL4-W07-RK3566 is a panel LCD touchscreen surrounded by an aluminum frame (**Figure 1-2**).

Figure 1-2: Front View

1.5 Rear Panel

The rear panel provides access to retention screw holes that support VESA 75 mounting. See **Figure 1-3**.

Figure 1-3: Rear View

1.6 Bottom Panel

The bottom panel of the AFL4-W07-RK3566 has the following connectors and switches.

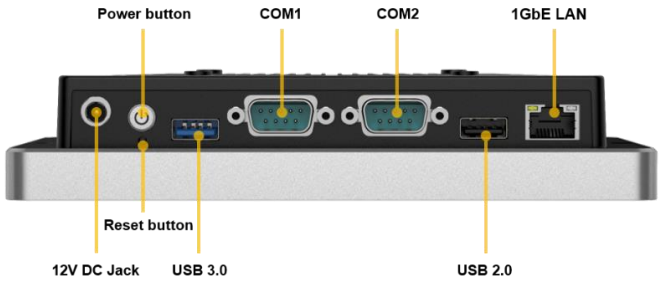


Figure 1-4: Front Bottom Panel

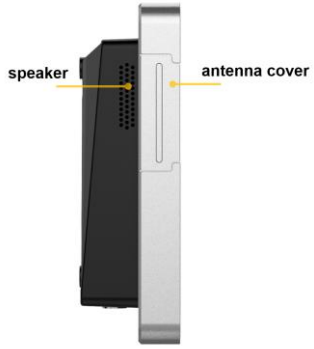


Figure 1-5: Left Bottom Panel

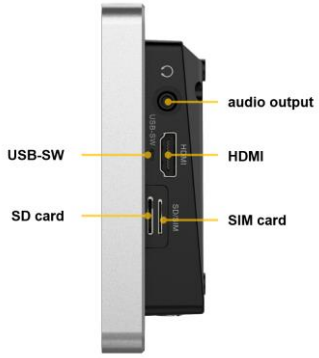


Figure 1-6: Right Bottom Panel

1.7 System Specifications

The technical specifications for the AFL4-W07-RK3566 systems are listed in **Table 1-2**.

Specification		AFL4-W07-RK3566	AFL4-W07-RK3566-A	AFL4-W07-RK3566-2/16GB
LCD	**LCD Size**	7" (16:9)		
	Max. Resolution	1024 x 600		
	Brightness (cd/m²)	450		
	Contrast Ratio	800:1		
	Viewing Angle (H-V)	170º / 170º		
Touch	**Touchscreen**	PCAP with USB interface (anti-UV/AG coating)		
	Touch Controller	EETI EXC 81 Series		
Motherboard	**CPU (SoC)**	Rockchip RK3566(Quad-core Cortex-A55 up to 1.8Ghz)		
	RAM	4GB LPDDR4/4X, up to 8GB		2GB LPDDR4/4X, up to 8GB
	Storage	32GB eMMC NAND Flash		16GB eMMC NAND Flash
I/O Ports	**USB**	1 x USB3.0 Type-A Host 1 x USB2.0 Type-A OTG		
	Ethernet	1 x 1GbE LAN by YT8521SC		
	UART	2 x (1 x RS-232 & 1 x RS422 & 1 x RS485 by DB9 Port)		
	HDMI	1 x HDMI2.0, up to 4K (Android supports dual display copy mode, and Debian only supports single display)		
	SD Card	1 x Micro SD Slot		
	Expansion	1 x 3042/52 B-key (PCIe Gen2 x1, USB2.0) 1 x On-board SIM card socket (Push-Push type) for M.2 B key 1 x Board to board connector(only supports IEI wireless modules)		

Multimedia	**Audio**	1 x Speaker (1W) 1 x 3.5mm audio jack (line out/line in)		
Switch	**Switch**	1 x Power button with LED 1 x Reset button 1 x USB OTG switch		
Physical	**Construction**	Aluminum die casting		
	Mounting	Panel, Wall, Stand, Arm, VESA 75		
	Color	Silver + Black		
	Dimension(mm)	180.51 x 116.22 x 35.45		
Environment	**Operating Temperature**	0 ~ 50℃ with 0.7m/s air flow		
	Storage Temperature	-20ºC ~ 60ºC		
	Humidity	10% ~ 90%@40ºC (non-condensing)		
	IP Level	IP 64 compliant front panel		
	Safety/EMC	CE, FCC, Class A		
	Thermal Solution	Fanless		
	Power input	DC power jack: 12V		
	Power consumption	12V@1.05 (Rockchip® RK3566 with 2GB Memory, 16G eMMC, Debian OS)		
	Weight	0.67 / 2.11kg		
OS		Debian10 (Kernel 4.19)	Android 12.0	Debian10 (Kernel 4.19)

Table 1-2: System Specifications

1.8 Dimensions

The AFL4-W07-RK3566 dimensions are shown below.

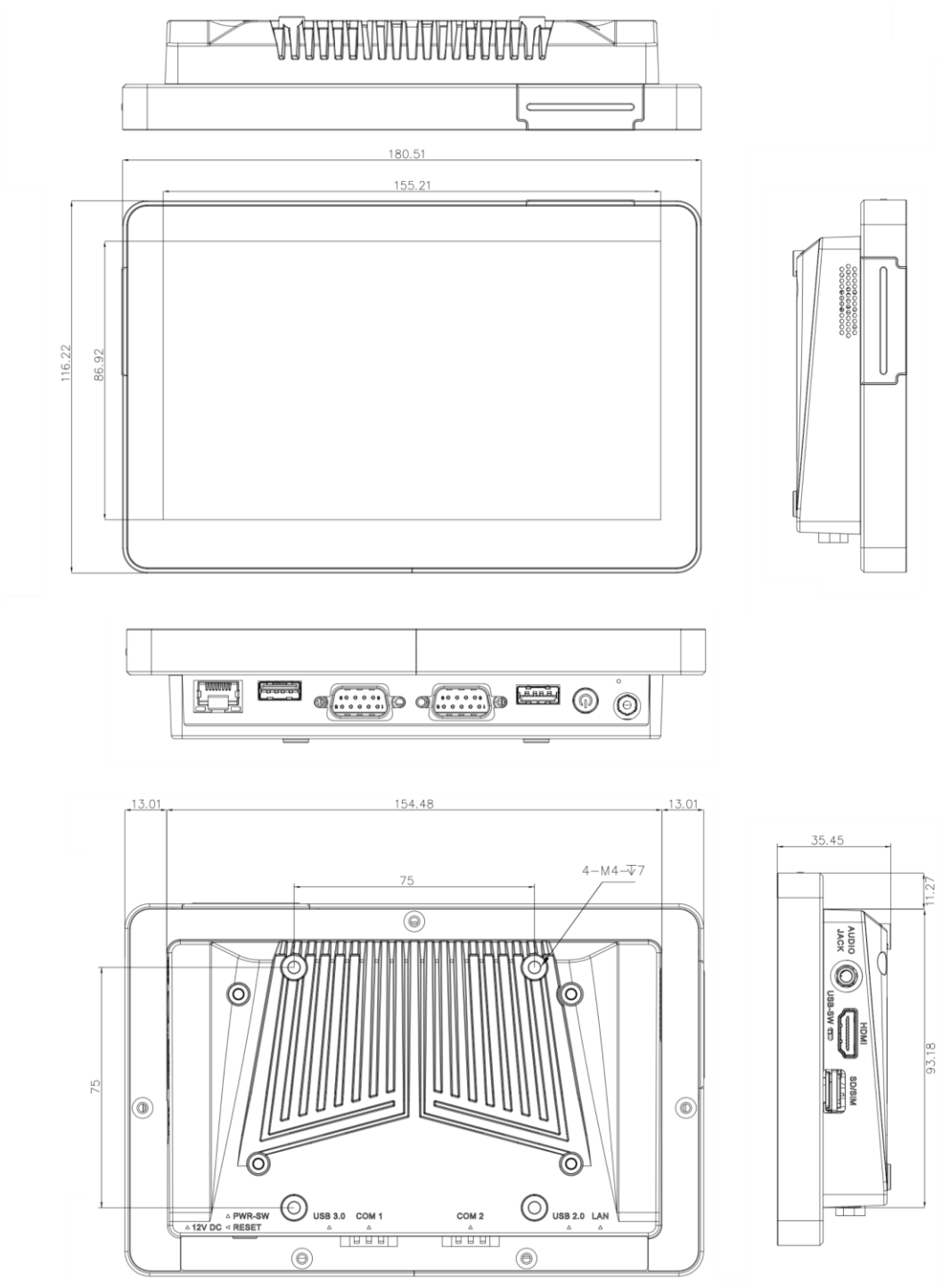


Figure 1-7: AFL4-W07-RK3566 Dimensions (mm)

Chapter

2

Unpacking

2.1 Unpacking

To unpack the panel PC, follow the steps below:

WARNING!

The front side LCD screen has a protective plastic cover stuck to the screen. Only remove the plastic cover after the panel PC has been properly installed. This ensures the screen is protected during the installation process.

Step 1: Open the box.

Step 2: Lift the monitor out of the boxes.

Step 3: Remove both polystyrene ends, one from each side.

Step 4: Pull the plastic cover off the panel PC.

Step 5: Make sure all the components listed in the packing list are present.

2.2 Packing List

NOTE:

If any of the components listed in the checklist below are missing, do not proceed with the installation. Contact the IEI reseller or vendor the AFL4-W07-RK3566 was purchased from or contact an IEI sales representative directly by sending an email to sales@ieiworld.com.

The AFL4-W07-RK3566 panel PC is shipped with the following components:

Quantity	Item	Image
1	AFL4-W07-RK3566 Panel PC	
1	36W Power Adapter 63040-380036-210-RS	
1	Power Cord 32702-000400-200-RS	

Table 2-1: Packing List

2.3 Optional Items

The following are optional components which may be separately purchased:

Item and Part Number	Image
VESA 75 wall mount kit (**P/N**: AFLWK-12)	
Arm (**P/N**: ARM-11)	
Stand for VESA 75/100 (**P/N**: STAND-C12)	
LCD monitor stand with adjustable hinges (**P/N**: VSTAND-A07)	

Table 2-2: Optional Items

If any of these items are missing or damaged, contact the distributor or sales representative immediately.

Chapter

3

Installation

3.1 Anti-static Precautions

WARNING:

Failure to take ESD precautions during the maintenance of the AFL4-W07-RK3566 may result in permanent damage to the AFL4-W07-RK3566 and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the AFL4-W07-RK3566. Dry climates are especially susceptible to ESD. It is therefore critical that whenever AFL4-W07-RK3566 is accessed internally, or any other electrical component is handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband***: Wearing a simple anti-static wristband can help to prevent ESD from damaging the board.
- ***Self-grounding***: Before handling the board, touch any grounded conducting material. During the time the board is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad***: When configuring the AFL4-W07-RK3566, place it on an anti-static pad. This reduces the possibility of ESD damaging the AFL4-W07-RK3566.
- ***Only handle the edges of the PCB***: When handling the PCB, hold the PCB by the edges.

3.2 Installation Precautions

When installing the panel PC, please follow the precautions listed below:

- **Power turned off**: When installing the panel PC, make sure the power is off. Failing to turn off the power may cause severe injury to the body and/or damage to the system.
- **Certified Engineers**: Never open the equipment. For safety reasons, the equipment should be opened only by qualified skilled person. Only certified engineers should install and modify onboard functionalities.

- **Anti-static Discharge**: If a user opens the rear panel of the panel PC, to configure the jumpers or plug in added peripheral devices, ground themselves first and wear an anti-static wristband.

3.3 Removing the Back Cover

WARNING:

Before any internal installation procedures are carried out on the system, make sure the system is turned off and cooled down for 15 minutes. Failing to turn off the system before opening it can cause permanent damage to the system and serious or fatal injury to the user.

To access the AFL4-W07-RK3566 internally the back cover must be removed. To remove the back cover, please follow the steps below.

Step 1: Remove the retention screws from the back cover (**Figure 3-1**).

Figure 3-1: Back Cover Retention Screws

Step 2: Slide the back cover toward the I/O panel until it is disengaged from the locking mechanism. Then, lift the back cover off the chassis. See **Figure 3-2**.

Figure 3-2: Remove the Back Cover

3.4 Patch Antenna Installation

The AFL4-W07-RK3566 provides WIFI and 4G/5G functions for communication, and has two built-in antenna positions where patch antennas can be installed. The installation steps are as follows.

Step 1: Remove the back cover. See **Section 3.3** above.

Step 2: Take out the patch antenna and tear off the 3M tape.

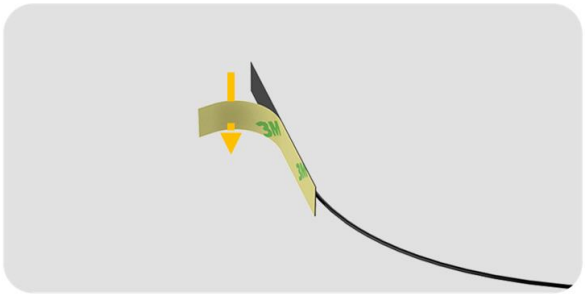


Figure 3-3: Take Out the Patch Antenna

Step 3: Attach the patch antenna to the dedicated antenna fixing position.

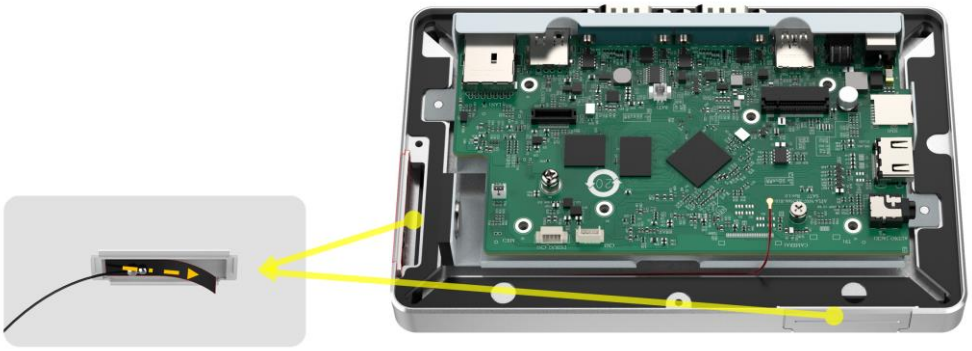


Figure 3-4: Fix the Patch Antenna

Step 4: Pass the antenna through the gap in the middle of the frame and route it to the 4G/5G or WIFI module.

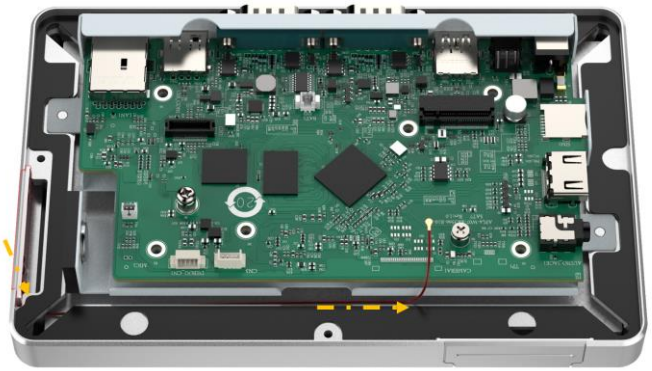


Figure 3-5: Route Antenna to the Module

3.5 M.2 4G/5G Module Installation

To install a M.2 module into the AFL4-W07-RK3566, please follow the steps below:

Step 1: Remove the back cover. See **Section 3.3**.

Step 2: Locate the M.2 card slot. Remove the preinstalled retention screw on the standoff of the M.2 card slot as shown in **Figure 3-6**.

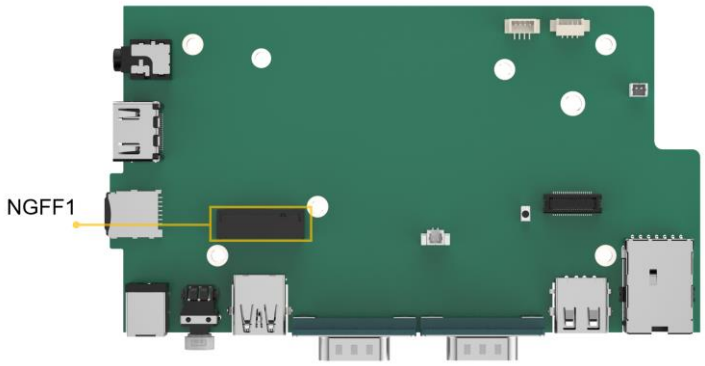


Figure 3-6: M.2 Module Slot Location

Step 3: Line up the notch on the M.2 module with the notch on the connector. Slide the M.2 module into the socket at an angle of about 20º.

Step 4: Secure the M.2 module with the retention screw. Push the other end of the M.2 module down and secure the module with the previously removed retention screw (**Figure 3-7**).

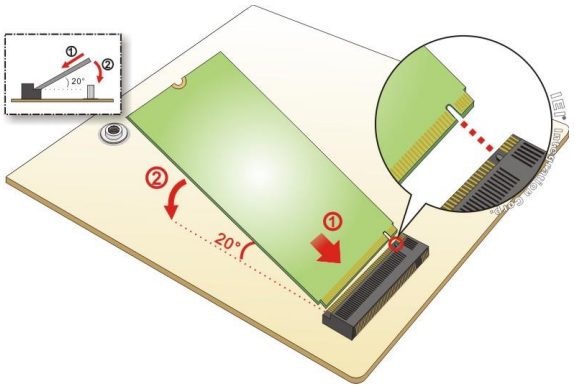


Figure 3-7: M.2 Module Installation

Step 5: Lock the fixing screws and buckle the antenna connector.

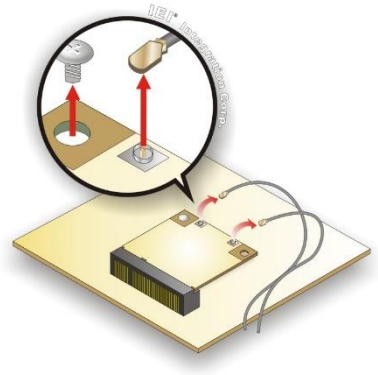


Figure 3-8: Buckle the Antenna Connector

Step 6: Replace the back cover and secure it using retention screws. See **Section 3.9**.

3.6 IEI board to board WIFI Module Installation

To install a board to board WIFI Module into the AFL4-W07-RK3566, please follow the steps below:

Step 1: Remove the back cover. See **Section 3.3** above.

Step 2: Locate the board to board slot(CN2). Remove the preinstalled retention screw on the standoff of the board to board slot as shown in **Figure 3-9**.

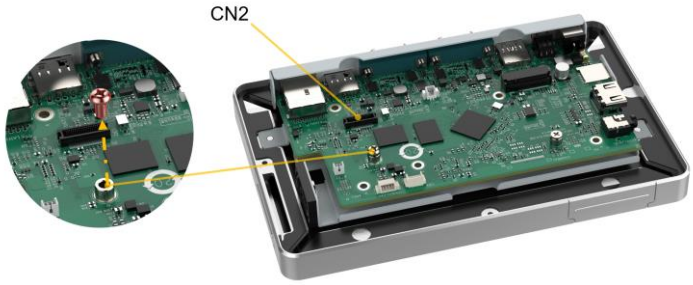


Figure 3-9: WIFI Module Slot Location

Step 3: Line up the notch on the WIFI module with the notch on the connector. Insert the WIFI module into the socket.

Figure 3-10: WIFI Module Installation

Step 4: Lock the fixing screws and buckle the antenna connector.

Figure 3-11: Lock Screws and Buckle the Antenna

Step 5: Replace the back cover and secure it using retention screws.

3.7 OTG Mode Selection

The AFL4-W07-RK3566 features a USB OTG mode switch that allows you to change the USB to Device mode, enabling operating system updates by connecting to the computer via a USB cable. This mode can be selected using the USB OTG switch on the side (**Figure 3-12**).

Figure 3-12: USB OTG Switch Location

3.8 OS Image Program Switch

The AFL4-W07-RK3566 can be powered on by holding down the IMAGE_SW1 button, which will enter the system burning mode. In this mode, you can use a USB cable to update the Android or Debian operating system.

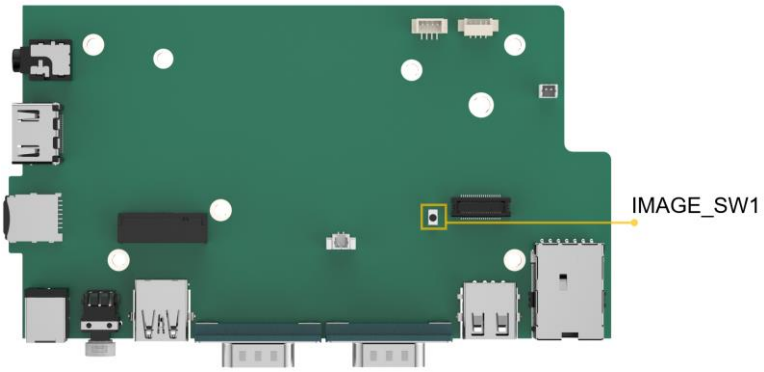


Figure 3-13: IMAGE-SW1 Location

Step 1: Check whether USB-SW is set to OTG mode. Remove the back cover. See **Section 3.3** above.

Step 2: Use a USB cable to connect the AFL4-W07-RK3566's USB2.0 OTG port and start the RKDevTool.

NOTE:

The RKDevTool is a burning software from IEI. For any requests, please contact IEI.

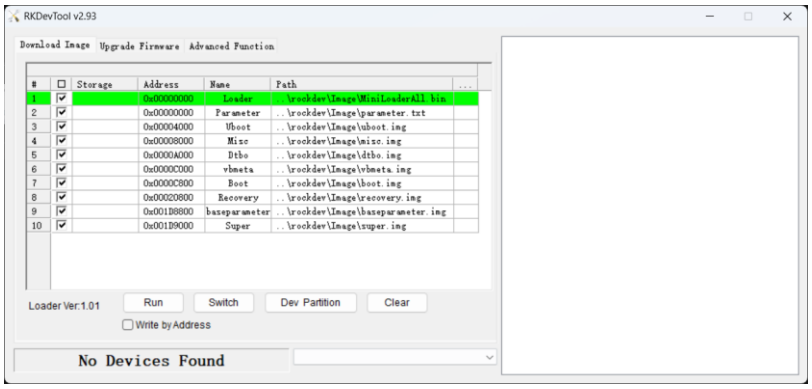


Figure 3-14: Software Screen (1)

Step 3: Press and hold the IMAGE_SW1 button while powering on the device (**Figure 3-13**).

Step 4: The RKDevTool will find a maskrom device. Click Run to automatically burn the new operating system to the AFL4-W07-RK3566 product (Debian or Android).

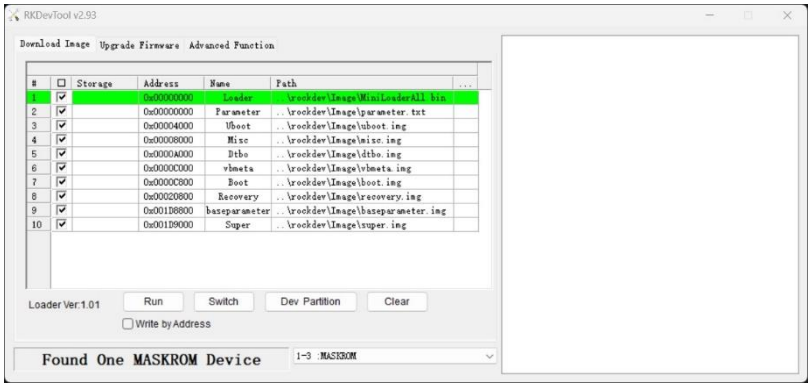


Figure 3-15: Software Screen (2)

Step 5: After the burning is completed, the device will exit from the software, and the AFL4-W07-RK3566 product will automatically reboot into the new OS (**Figure 3-16**).

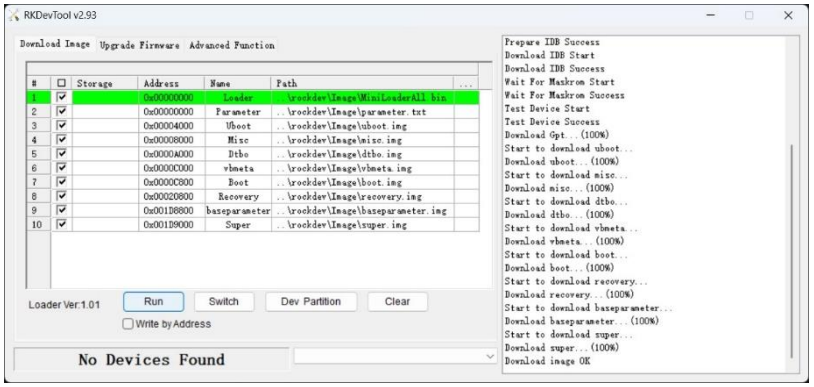


Figure 3-16: Software Screen (3)

Step 6: Turn off the AFL4-W07-RK3566 device, install the back cover, and switch the USB-SW back to HOST mode. You can then use the device normally.

3.9 Install the Back Cover

To install the back cover, follow the steps below.

Step 1: Check whether the thermal pad on the back cover is complete. If the thermal pad is damaged, please replace it with a new thermal pad in the accessory pack to ensure the heat dissipation effect (**Figure 3-17**).

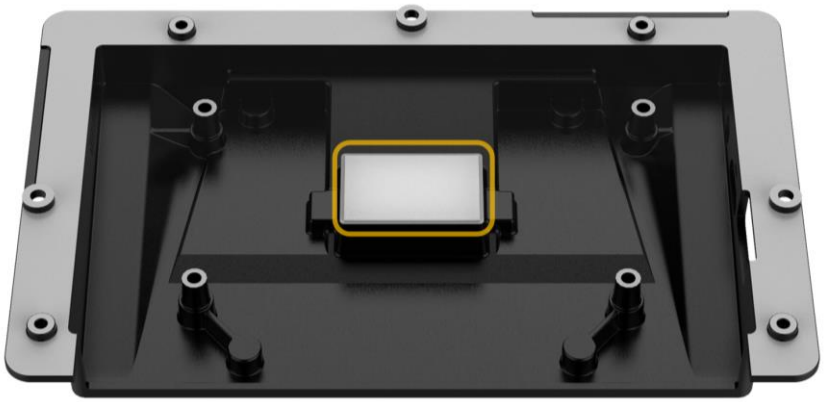


Figure 3-17: Thermal Pad

Step 2: Put on the back cover and tighten the screws. See **Figure 3-18**.

Figure 3-18: Install the Back Cover

3.10 Mounting the System

The methods of mounting the AFL4-W07-RK3566 are listed below.

- Wall mounting
- Arm mounting
- Stand mounting
- V-Stand mounting

The mounting methods are described below.

3.10.1 Wall Mounting

To mount the panel PC onto the wall, please follow the steps below.

Step 1: Select the location on the wall for the wall-mounting bracket.

Step 2: Carefully mark the locations of the four screw holes in the bracket on the wall.

Step 3: Drill four pilot holes at the marked locations on the wall for the bracket retention screws.

Step 4: Align the wall-mounting bracket screw holes with the pilot holes.

Step 5: Secure the mounting-bracket to the wall by inserting the retention screws into the four pilot holes and tightening them (**Figure 3-19**).

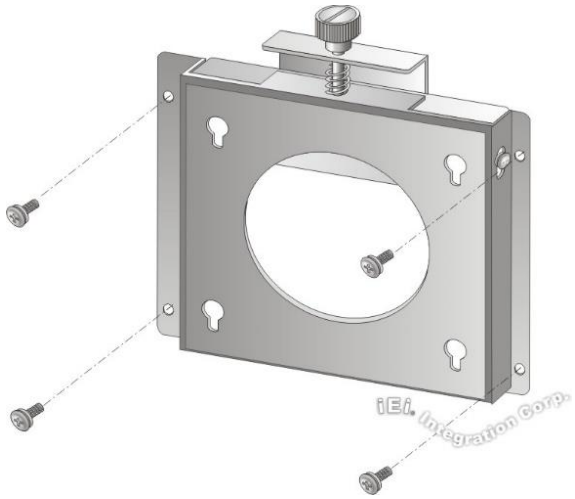
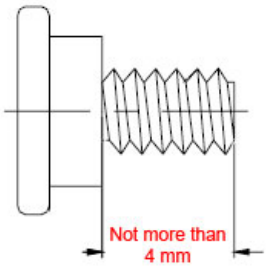


Figure 3-19: Wall-mounting Bracket

Step 6: Insert the four monitor mounting screws provided in the wall mount kit into the four screw holes on the real panel of the panel PC and tighten until the screw shank is secured against the rear panel (**Figure 3-19**).

WARNING:

Please use the M4 screws provided in the wall mount kit for the rear panel. If the screw is missing, the thread depth of the replacement screw should be not more than 4 mm.



Step 7: Align the mounting screws on the monitor rear panel with the mounting holes on the bracket.

Step 8: Carefully insert the screws through the holes and gently pull the monitor downwards until the monitor rests securely in the slotted holes (**Figure 3-20**). Ensure that all four of the mounting screws fit snugly into their respective slotted holes. Always keep the AFL4-W07-RK3566 in landscape orientation when mounting on the wall.

NOTE:

In the diagram below the bracket is already installed on the wall.

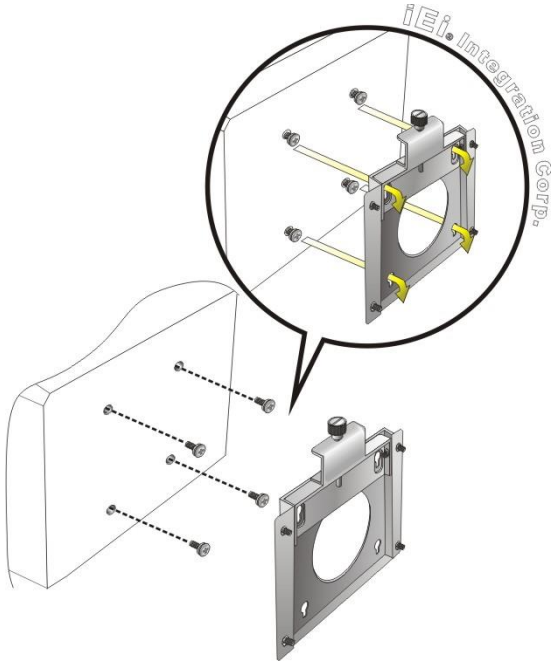


Figure 3-20: Chassis Support Screws

Step 9: Secure the panel PC by fastening the retention screw of the wall-mounting bracket (**Figure 3-21**: Secure the Panel PC).

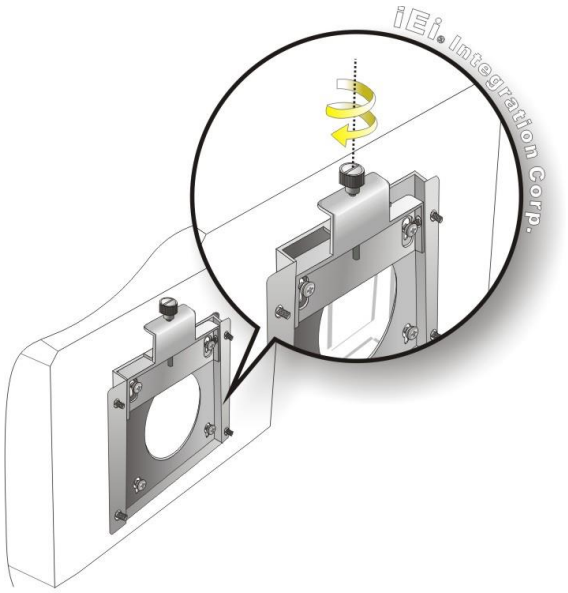


Figure 3-21: Secure the Panel PC

3.10.2 Arm Mounting

The AFL4-W07-RK3566 is VESA (Video Electronics Standards Association) compliant and can be mounted on an arm with a 75 mm interface pad. To mount the AFL4-W07-RK3566 on an arm, please follow the steps below.

Step 1: The arm is a separately purchased item. Please correctly mount the arm onto the surface it uses as a base. To do this, refer to the installation documentation that came with the mounting arm.

NOTE:

When purchasing the arm please ensure that it is VESA compliant and that the arm has a 75 mm interface pad. If the mounting arm is not VESA compliant it cannot be used to support the AFL4-W07-RK3566 panel PC.

Step 2: Once the mounting arm has been firmly attached to the surface, lift the panel PC onto the interface pad of the mounting arm.

Step 3: Align the retention screw holes on the mounting arm interface with those in the panel PC (**Figure 3-22**).

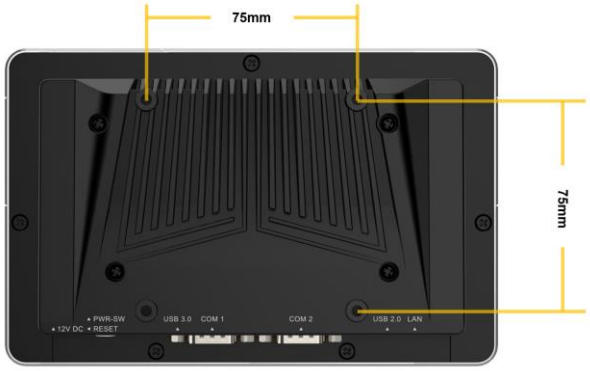


Figure 3-22: Arm Mounting Retention Screw Holes

Step 4: Secure the AFL4-W07-RK3566 to the interface pad by inserting four retention screws through the mounting arm interface pad and into the AFL4-W07-RK3566.

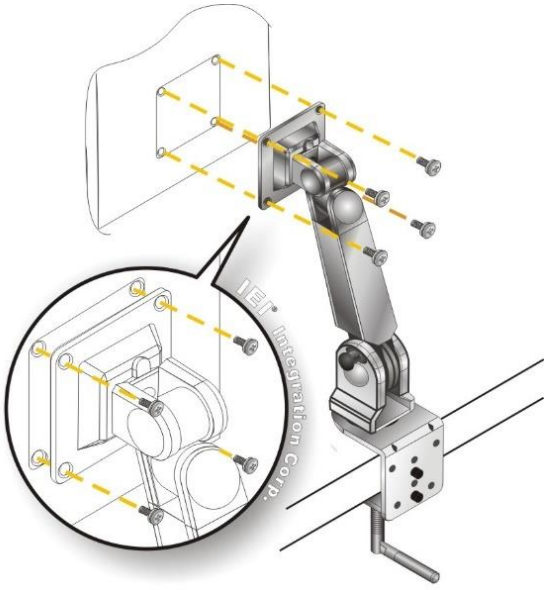


Figure 3-23: Arm Mounting

3.10.3 Stand Mounting

To mount the AFL4-W07-RK3566 using the stand mounting kit, please follow the steps below.

Step 1: Locate the screw holes on the rear of the AFL4-W07-RK3566. This is where the bracket will be attached.

Step 2: Align the bracket with the screw holes.

Step 3: To secure the bracket to the AFL4-W07-RK3566 insert the retention screws into the screw holes and tighten them.

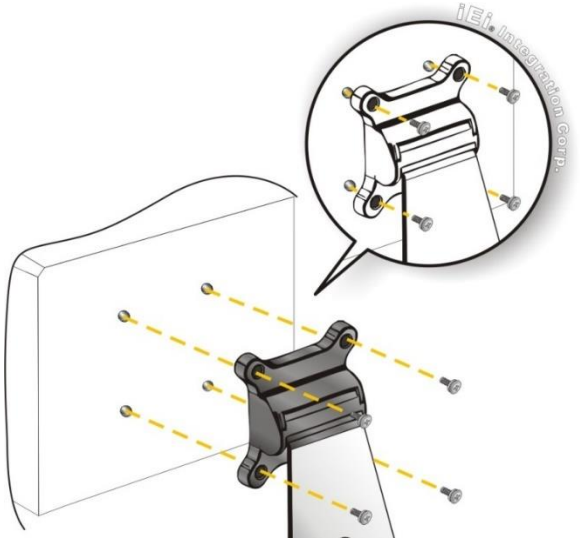


Figure 3-24: Stand Mounting (Stand-Cxx)

3.10.4 V-Stand Mounting

To mount the AFL4-W07-RK3566 using the optional V-Stand mounting kit, please follow the steps below.

Step 1: Carefully mark the locations of the four V-Stand screw holes on the mounting area. Drill four pilot holes at the marked locations for the V-Stand retention screws.

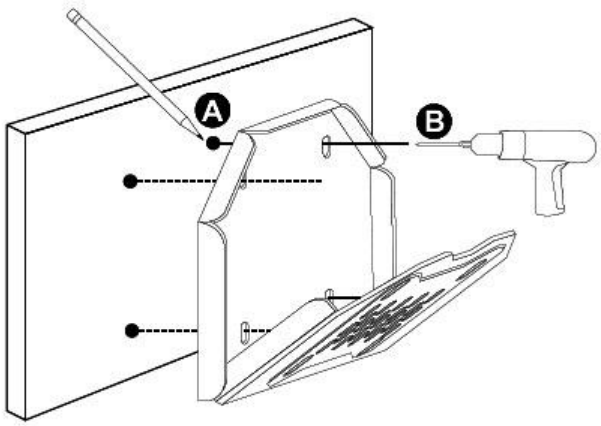


Figure 3-25: Drill Pilot Holes for V-Stand

Step 2: Align the screw holes on the V-Stand with the VESA mount screw holes on the system rear panel.

Step 3: Insert the four VESA mount screws into the four screw holes on the system rear panel. Adjust the V-Stand to a proper position.

Step 4: Tighten until the screw shank is secured against the rear panel.

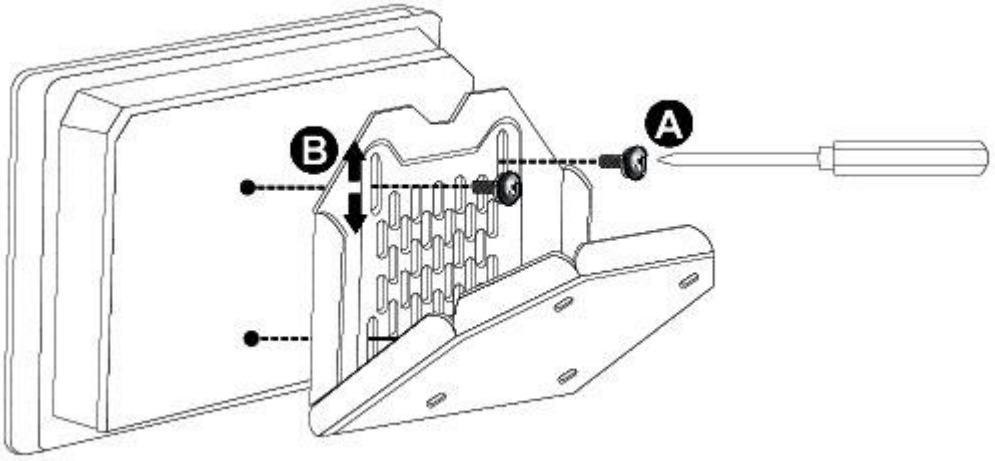


Figure 3-26: Secure V-Stand to System

Step 5: Align the V-Stand screw holes with the pilot holes on the mounting area. Mount the V-Stand by inserting the retention screws into the four pilot holes and tightening them.

Step 6: Adjust the V-Stand to have a best viewing angle to operate the system.

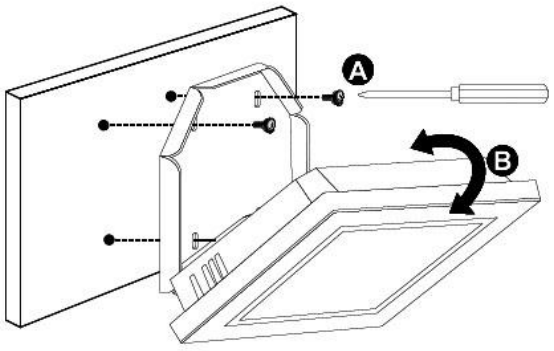


Figure 3-27: Secure V-Stand to Mounting Area

3.11 Powering on the System

WARNING:

To reduce potential safety issues, only the power adapter provided with the product, a replacement power adapter provided by IEI, or a power adapter purchased as an accessory from IEI should be used with the product.

To power on the system, follow the steps below:

Step 1: Connect the power cord to the power adapter. Connect the other end of the power cord to a power source. Ensure that the power cord is connected to a socket-outlet with earthing connection.

Step 2: Connect the power adapter to the power connector of the AFL4-W07-RK3566. The power LED turns on in ORANGE. The device will automatically turn on and the switch light will turn blue

Step 3: After shutting down, you can turn on the power by pressing the switch button on the IO.

Figure 3-28: Power Button

3.12 Reset the System

The reset button enables user to reboot the system when the system is turned on. The reset button location is shown in **Figure 3-29**. Press the reset button to reboot the system.

Figure 3-29: Reset Button Location

Chapter

4

Connectors

4.1 Peripheral Interface Connectors

The AFL4-W07-RK3566 panel PC motherboard comes with a number of peripheral interface connectors and configuration jumpers. The connector locations are shown in **Figure 4-1** and **Figure 4-2**. The connector pinouts for these connectors are listed in the following sections.

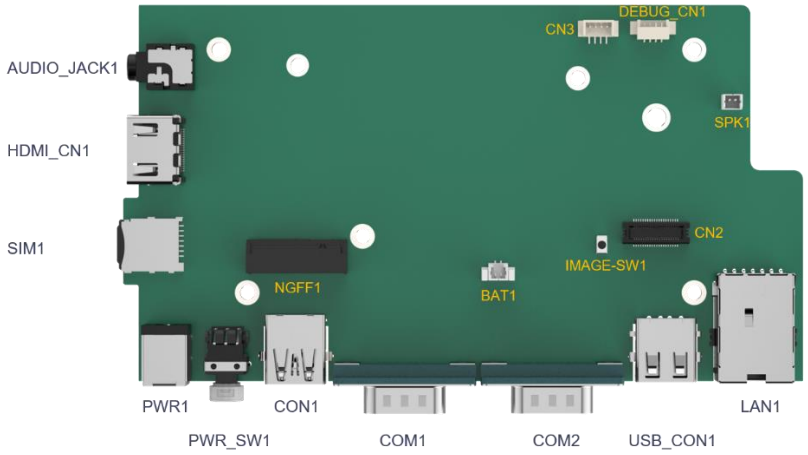


Figure 4-1: Main Board Layout Diagram (Front Side)

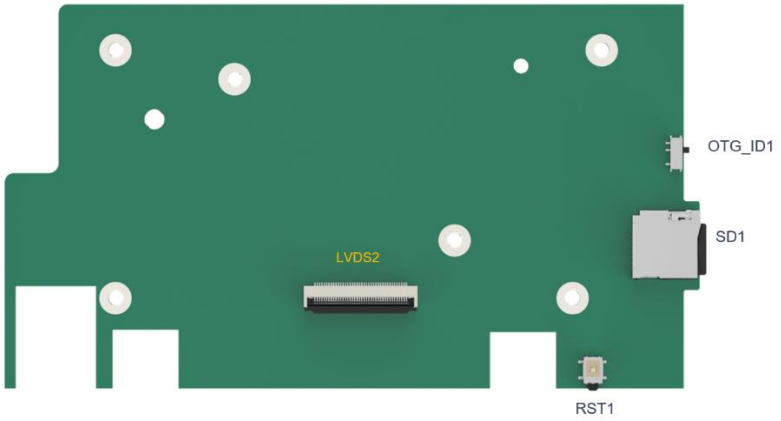


Figure 4-2: Main Board Layout Diagram (Solder Side)

4.2 Internal Peripheral Connectors

Internal peripheral connectors are found on the motherboard and are only accessible when the motherboard is outside of the chassis. The table below shows a list of the peripheral interface connectors on the AFL4-W07-RK3566 motherboard. Pinouts of these connectors can be found in the following sections.

Connector	Type	Label
Touch Panel Connector	4-pin wafer	CN3
Debug Port Connector	4-pin connector	DEBUG_CN1
Speaker Connector	2-pin connector	SPK1
Board to Board Connector	40-pin connector	CN2
OS Image Program Switch	Switch	IMAGE_SW1
Battery Connector	2-pin wafer	BAT1
M.2 B-Key Slot	B-key slot	NGFF1
LVDS Connector	40-pin FPC connector	LVDS2

Table 4-1: Peripheral Interface Connectors

4.2.1 Touch Panel Connector (CN3)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	DATA-
3	DATA+	4	GND

Table 4-2: Touch Panel Connector (CN3) Pinouts

4.2.2 Debug Port Connector (DEBUG_CN1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	UART2_RX
3	UART2_TX	4	GND

Table 4-3: Debug Port Connector (DEBUG_CN1) Pinouts

4.2.3 Speaker Connector (SPK1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	SPKP_OUT	2	SPKN_OUT

Table 4-4: D Speaker Connector (SPK1) Pinouts

4.2.4 Board to Board Connector (CN2)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	GND
3	UART1_RTSn	4	SDMMC1_D0
5	UART1_TX	6	SDMMC1_D1
7	UART1_RX	8	SDMMC1_D2
9	UART1_CTSn	10	SDMMC1_D3
11	GND	12	SDMMC1_CMD
13	I2S2_LRCK	14	WIFI2T2R_CLK
15	I2S2_SDO	16	GND
17	I2S2_SDI	18	WIFI_REG_ON_H
19	I2S2_SCLK	20	WIFI_WAKE_HOST
21	GND	22	BT_WAKE_HOST
23	32KOUT_WIFI	24	HOST_WAKE_BT
25	GND	26	BT_REG_ON
27	GND	28	WLAN_PEN
29	NC	30	GND
31	VCC 3V3	32	SDIO_INT
33	VCC 3V3	34	SD_RESET
35	VCC 3V3	36	GND
37	VCC 3V3	38	GND
39	NC	40	GND

Table 4-5: Board to Board Connector (CN2) Pinouts

4.2.5 OS Image Program Switch (IMAGE_SW1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	eMMC_D0/FLASH_D0	2	GND

Table 4-6: 5.2.5 OS Image Program Switch (IMAGE_SW1) Pinouts

4.2.6 Battery Connector (BAT1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	BAT +	2	GND

Table 4-7: 5.2.7 Battery Connector (BAT1) Pinouts

4.2.7 LVDS Connector (LVDS2)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	VCC_LCD_COM	2	VCC_LCD1
3	VCC_LCD1	4	NC
5	LVDS_RST	6	STBYB
7	GND	8	TX_D0N
9	TX_D0P	10	GND
11	TX_D1N	12	TX_D1P
13	GND	14	TX_D2N
15	TX_D2P	16	GND
17	TX_CLKN	18	TX_CLKP
19	GND	20	TX_D3N
21	TX_D3P	22	GND
23	NC	24	NC
25	GND	26	NC
27	DIMO	28	SELB
29	AVDD	30	GND
31	VLED-	32	LED-
33	LR	34	LCD_UD
35	VGL	36	CABC_EN1
37	CABC_EN0	38	VGH
39	VLED+	40	VLED+

Table 4-8: LVDS Connector (LVDS2) Pinouts

4.2.8 M.2 B-Key slot (NGFF1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	NC	2	V3.3

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
3	GND	4	V3.3
5	GND	6	V1.8
7	USB_+DATA	8	MBK_D
9	USB_-DATA	10	NC
11	GND	12	B Key
13	B Key	14	B Key
15	B Key	16	B Key
17	B Key	18	B Key
19	B Key	20	NC
21	NC	22	NC
23	NC	24	NC
25	NC	26	NC
27	GND	28	NC
29	NC	30	SIM_RST
31	NC	32	SIM_CLK
33	GND	34	SIM_IO
35	NC	36	SIM_VCC
37	NC	38	NC
39	GND	40	NC
41	PCIE_RX0N	42	NC
43	PCIE_RX0P	44	NC
45	GND	46	NC
47	PCIE_TX0N	48	NC
49	PCIE_TX0P	50	PCIE_PERSTn
51	GND	52	PCIE_CLKREQn
53	PCIE_CLKN	54	PCIE_WAKE
55	PCIE_CLKP	56	NC
57	GND	58	NC
59	NC	60	NC
61	NC	62	NC
63	NC	64	NC
65	NC	66	NC
67	RESET	68	NC

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
69	NC	70	V3.3
71	GND	72	V3.3
73	GND	74	V3.3
75	GND		

Table 4-9: 5.2.8 M.2 B-Key Slot (NGFF) Pinouts

4.3 External Interface Panel Connectors

The table below lists the rear panel connectors on the AFL4-W07-RK3566 motherboard. Pinouts of these connectors can be found in the following sections.

Connector	Type	Label
Serial ports	DB-9	COM1,COM2
RJ45 LAN Connector	RJ45	LAN1
HDMI Connector	HDMI	HDMI_CN1
Audio Connector	AUDIO_JACK	AUDIO_JACK1
USB 3.0 Connectors	USB 3.0 A TYPE	CON1
USB 2.0 Connectors	USB 2.0 A TYPE	USB_CON1
DC Input Connector	DC Jack	PWR1
Power Button	Push button	PWR_SW1
Reset Button	Push button	RST1
SD Card	MICRO SD CARD	SD1
SIM Card	Nano SIM CARD	SIM1
USB OTG mode switch	3-pin Switch	OTG_ID1

Table 4-10: External Interface Panel Connectors

4.3.1 Serial Ports (COM1/2)

Pin	COM1	COM2
1	RS232_RXD1	RS232_RXD2
2	RS232_TXD1	RS232_TXD2
3	RXD422+	RXD422+
4	RXD422#	RXD422#
5	TXD422#	TXD422#

Pin	COM1	COM2
6	TXD422+	TXD422+
7	GND	GND
8	RS485_DATA1-	RS485_DATA2-
9	RS485_DATA1-	RS485_DATA2+
10	GND	GND

Table 4-11: COM1/2 Connector Pinouts

4.3.1 Audio Connector (AUDIO_JACK1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	MIC1_INN	2	HPR_OUT
3	HP_DET	4	GND
5	HPL_OUT	6	GND
7	GND		

Table 4-12: Audio Connector (AUDIO_JACK1) Pinouts

4.3.1 Reset Button (RST1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	GND	2	RESET_KEY
3	GND	4	RESET_KEY

Table 4-13: Reset Button (RST1) Pinouts

4.3.1 SD Card (SD1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	DATA2	2	DATA3
3	CMD	4	VDD
5	CLK	6	GND
7	DATA0	8	DATA1
9	GND	10	DET

Table 4-14: SD Card (SD1) Pinouts

4.3.1 SIM Card (SIM1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	VCC	2	SIM_RST
3	SIM_CLK	4	NC
5	GND	6	NC
7	SIM_IO	8	

Table 4-15: SIM Card (SIM1) Pinouts

4.3.1 USB OTG Mode Switch (OTG_ID1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
A-B	HOST mode	B-C	OTG mode (default)

Table 4-16: USB OTG Mode Switch (OTG_ID1) Pinouts

4.3.2 RJ45 LAN Connector (LAN1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
R1	GND	R7	TRD1P2
R2	TRD1P0	R8	TRD1N2
R3	TRD1N0	R9	TRD1P3
R4	TRD1P1	R10	TRD1N3
R5	TRD1N1	R11	GND
R6	GND		

Table 4-17: LAN Connector (J_LAN1/2) Pinouts

4.3.3 HDMI Connector (HDMI1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	TX2P	13	TX_CEC
2	GND	14	NC
3	TX2N	15	DDC_SCL
4	TX1P	16	DDC_SDA
5	GND	17	GND
6	TX1N	18	+5V

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
7	TX0P	19	HPD_PORT
8	GND	G1	HDMI_GND
9	TX0N	G2	HDMI_GND
10	TXCLKP	G3	HDMI_GND
11	GND	G4	HDMI_GND
12	TXCLKN		

Table 4-18: HDMI1 Connector (HDMI1) Pinouts

4.3.4 USB 2.0 Connectors (USB_CON1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	DATA-
3	DATA+	4	GND

Table 4-19: USB 2.0 Connectors (USB_CON1) Pinouts

4.3.5 USB 3.0 Connectors (CON1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	2	USB_DATA-
3	USB_DATA+	4	GND
5	USB3_RX-	6	USB3_RX+
7	GND	8	USB3_TX-
9	USB3_TX+		

Table 4-20: USB 3.2 Gen 2 Connectors (CON1) Pinouts

4.3.6 Power Button (PWR_SW1)

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	NA	4	NA
2	PWRON_KEY	5	NA
3	GND	6	GND

Table 4-21: Power Button (PWR_SW1) Pinouts

4.3.7 DC Jack (PWR1)

PIN NO.	DESCRIPTION
1	12V
2	GND

Table 4-22: DC Jack Connector

Appendix

A

Regulatory Compliance

DECLARATION OF CONFORMITY

This equipment is in conformity with the following EU directives:

- EMC Directive (2014/30/EU)
- Low-Voltage Directive (2014/35/EU)
- RoHS II Directive (2015/863/EU)

If the user modifies and install other devices in the equipment, the CE conformity declaration may no longer apply.

If this equipment has telecommunications functionality, it also complies with the requirements of the Radio Equipment Directive 2014/53/EU.

Hereby, IEI INTEGRATION CORP declares that the radio equipment type AFL4-W07-RK3566 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://www.ieiworld.com

English

IEI Integration Corp declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Български [Bulgarian]

IEI Integration Corp. декларира, че този оборудване е в съответствие със съществените изисквания и другите приложими правила на Директива 2014/53/EU.

Česky [Czech] IEI Integration Corp tímto prohlašuje, že tento zařízení je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.
Dansk [Danish] IEI Integration Corp erklærer herved, at følgende udstyr overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU.
Deutsch [German] IEI Integration Corp, erklärt dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 2014/53/EU.
Eesti [Estonian] IEI Integration Corp deklareerib seadme seadme vastavust direktiivi 2014/53/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
Español [Spanish] IEI Integration Corp declara que el equipo cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU.
Ελληνική [Greek] IEI Integration Corp ΔΗΛΩΝΕΙ ΟΤΙ ΕΞΟΠΛΙΣΜΟΣ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU.
Français [French] IEI Integration Corp déclare que l'appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU.
Italiano [Italian] IEI Integration Corp dichiara che questo apparecchio è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU.
Latviski [Latvian] IEI Integration Corp deklarē, ka iekārta atbilst būtiskajām prasībām un citiem ar to saistītajiem noteikumiem Direktīvas 2014/53/EU.
Lietuvių [Lithuanian] IEI Integration Corp deklaruoja, kad šis įranga atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas.
Nederlands [Dutch] IEI Integration Corp dat het toestel toestel in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU.

Malti [Maltese] IEI Integration Corp jiddikjara li dan prodott jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 2014/53/EU.
Magyar [Hungarian] IEI Integration Corp nyilatkozom, hogy a berendezés megfelel a vonatkozó alapvetõ követelményeknek és az 2014/53/EU irányelv egyéb elõírásainak.
Polski [Polish] IEI Integration Corp oświadcza, że wyrobu jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU.
Português [Portuguese] IEI Integration Corp declara que este equipamento está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.
Româna [Romanian] IEI Integration Corp declară că acest echipament este in conformitate cu cerinţele esenţiale şi cu celelalte prevederi relevante ale Directivei 2014/53/EU.
Slovensko [Slovenian] IEI Integration Corp izjavlja, da je ta opreme v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU.
Slovensky [Slovak] IEI Integration Corp týmto vyhlasuje, že zariadenia spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU.
Suomi [Finnish] IEI Integration Corp vakuuttaa täten että laitteet on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish] IEI Integration Corp förklarar att denna utrustningstyp står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.

ROHS STATEMENT

The label on the product indicates this product conforms to European (EU) Restriction of Hazardous Substances (RoHS) that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

CHINA ROHS

The label on the product indicates the estimated “Environmentally Friendly Use Period” (EFUP). This is an estimate of the number of years that these substances would “not leak out or undergo abrupt change.” This product may contain replaceable sub-assemblies/components which have a shorter EFUP such as batteries and lamps. These components will be separately marked.

FCC WARNING

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- 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 a 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Appendix

B

Safety Precautions

WARNING:

The precautions outlined in this chapter should be strictly followed. Failure to follow these precautions may result in permanent damage to the AFL4-W07-RK3566.

6.1 Safety Precautions

Please follow the safety precautions outlined in the sections that follow:

6.1.1 General Safety Precautions

Please ensure the following safety precautions are adhered to at all times.

- ***Follow the electrostatic precautions*** outlined below whenever the device is opened.
- ***Make sure the power is turned off and the power cord is disconnected*** whenever the AFL4-W07-RK3566 is being installed, moved or modified.
- ***To prevent the risk of electric shock, make sure power cord is unplugged from wall socket.*** To fully disengage the power to the unit, please disconnect the power cord from the AC outlet. Refer servicing to qualified service personnel. The AC outlet shall be readily available and accessible.
- ***Do not apply voltage levels that exceed the specified voltage range***. Doing so may cause fire and/or an electrical shock. Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country.
- ***Electric shocks can occur*** if the AFL4-W07-RK3566 chassis is opened when it is running. To avoid risk of electric shock, this device must only be connected to the mains supply with protective earth.
- ***Do not drop or insert any objects*** into the ventilation openings of the AFL4-W07-RK3566.

- ***If considerable amounts of dust, water, or fluids enter the* device**, turn off the power supply immediately, unplug the power cord, and contact the AFL4-W07-RK3566 vendor.
- **RTC battery safety precautions:**
  - RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE
  - Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion
  - Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas
  - A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas
- **DO NOT**:
  - Drop the device against a hard surface.
  - Strike or exert excessive force onto the LCD panel.
  - Touch any of the LCD panels with a sharp object
  - In a site where the ambient temperature exceeds the rated temperature

6.1.2 Anti-static Precautions

WARNING:

Failure to take ESD precautions during the installation of the AFL4-W07-RK3566 may result in permanent damage to the AFL4-W07-RK3566 and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the AFL4-W07-RK3566. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the AFL4-W07-RK3566 is opened and any of the electrical components are handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband***: Wearing a simple anti-static wristband can help to prevent ESD from damaging any electrical component.

- ***Self-grounding***: Before handling any electrical component, touch any grounded conducting material. During the time the electrical component is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad***: When configuring or working with an electrical component, place it on an anti-static pad. This reduces the possibility of ESD damage.
- ***Only handle the edges of the electrical component***: When handling the electrical component, hold the electrical component by its edges.

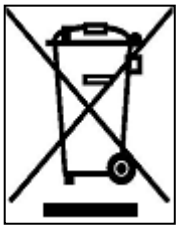
6.1.3 Product Disposal

CAUTION:

Risk of explosion if battery is replaced by an incorrect type. Only certified engineers should replace the on-board battery.

Dispose of used batteries according to instructions and local regulations.

- Outside the European Union–If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.
- Within the European Union–The device that produces less waste and is easier to recycle is classified as electronic device in terms of the European Directive 2012/19/EU (WEEE), and must not be disposed of as domestic garbage.



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask

the shop where you purchased the product. The mark on electrical and electronic products only applies to the current European Union Member States.

Please follow the national guidelines for electrical and electronic product disposal.

6.2 Maintenance and Cleaning Precautions

When maintaining or cleaning the AFL4-W07-RK3566, please follow the guidelines below.

WARNING:

- For safety reasons, turn-off the power and unplug the panel PC before cleaning.
- If you dropped any material or liquid such as water onto the panel PC when cleaning, unplug the power cable immediately and contact your dealer or the nearest service center. Always make sure your hands are dry when unplugging the power cable.

6.2.1 Maintenance and Cleaning

Prior to cleaning any part or component of the AFL4-W07-RK3566, please read the details below.

- Except for the LCD panel, never spray or squirt liquids directly onto any other components. To clean the LCD panel, gently wipe it with a piece of soft dry cloth or a slightly moistened cloth.
- The interior of the device does not require cleaning. Keep fluids away from the device interior.
- Be cautious of all small removable components when vacuuming the device.
- Never drop any objects or liquids through the openings of the device.
- Be cautious of any possible allergic reactions to solvents or chemicals used when cleaning the device.
- Avoid eating, drinking and smoking within vicinity of the device.

6.2.2 Cleaning Tools

Some components in the AFL4-W07-RK3566 may only be cleaned using a product specifically designed for the purpose. In such case, the product will be explicitly mentioned in the cleaning tips. Below is a list of items to use when cleaning the AFL4-W07-RK3566.

- ***Cloth***– Although paper towels or tissues can be used, a soft, clean piece of cloth is recommended when cleaning the device.
- ***Water or rubbing alcohol***–A cloth moistened with water or rubbing alcohol can be used to clean the device.
- ***Using solvents***–The use of solvents is not recommended when cleaning the device as they may damage the plastic parts.
- ***Vacuum cleaner***–Using a vacuum specifically designed for computers is one of the best methods of cleaning the device. Dust and dirt can restrict the airflow in the device and cause its circuitry to corrode.
- ***Cotton swabs***–Cotton swaps moistened with rubbing alcohol or water are excellent tools for wiping hard to reach areas.
- **Foam swabs**–Whenever possible, it is best to use lint free swabs such as foam swabs for cleaning.

Appendix

C

Hazardous Materials Disclosure

7.1.1 RoHS II Directive (2015/863/EU)

The details provided in this appendix are to ensure that the product is compliant with the RoHS II Directive (2015/863/EU). The table below acknowledges the presences of small quantities of certain substances in the product, and is applicable to RoHS II Directive (2015/863/EU).

Please refer to the following table.

Part Name	Toxic or Hazardous Substances and Elements									
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)	Bis(2-ethylhexyl) phthalate (DEHP)	Butyl benzyl phthalate (BBP)	Dibutyl phthalate (DBP)	Diisobutyl phthalate (DIBP)
Housing	O	O	O	O	O	O	O	O	O	O
Printed Circuit Board	O	O	O	O	O	O	O	O	O	O
Metal Fasteners	O	O	O	O	O	O	O	O	O	O
Cable Assembly	O	O	O	O	O	O	O	O	O	O
Fan Assembly	O	O	O	O	O	O	O	O	O	O
Power Supply Assemblies	O	O	O	O	O	O	O	O	O	O
Battery	O	O	O	O	O	O	O	O	O	O

O: This toxic or hazardous substance is contained in all of the homogeneous materials for the part is below the limit requirement in Directive (EU) 2015/863.

X: This toxic or hazardous substance is contained in at least one of the homogeneous materials for this part is above the limit requirement in Directive (EU) 2015/863.

7.1.2 China RoHS

此附件旨在确保本产品符合中国 RoHS 标准。以下表格标示此产品中某有毒物质的含量符合中国 RoHS 标准规定的限量要求。

本产品上会附有"环境友好使用期限"的标签，此期限是估算这些物质"不会有泄漏或突变"的年限。本产品可能包含有较短的环境友好使用期限的可替换元件，像是电池或灯管，这些元件将会单独标示出来。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
壳体	O	O	O	O	O	O
印刷电路板	O	O	O	O	O	O
金属螺帽	O	O	O	O	O	O
电缆组装	O	O	O	O	O	O
风扇组装	O	O	O	O	O	O
电力供应组装	O	O	O	O	O	O
电池	O	O	O	O	O	O

O: 表示该有毒有害物质在该部件所有物质材料中的含量均在 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求以下。

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求。