

SA-112-N
Android / Linux
Digital Signage Player

User's Manual

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Compliance



This is a class A product. In a domestic environment, this product may cause radio interference in which case users may be required to take adequate measures.



This product has been tested and found to comply with the limits for a Class A device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications.

WEEE



This product must not be disposed of as normal household waste, in accordance with the EU directive of for waste electrical and electronic equipment (WEEE - 2012/19/EU). Instead, it should be disposed of by returning it to a municipal recycling collection point. Check local regulations for disposal of electronic products.

We are Green



This product is compliant with the current RoHS restrictions and prohibits use of the following substances in concentrations exceeding 0.1% by weight (1000 ppm) except for cadmium, limited to 0.01% by weight (100 ppm).

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent chromium (Cr6+)
- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl ether (PBDE)
- Bis(2-ethylhexyl) phthalate (DEHP)
- Butyl benzyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

Important Safety Information

Carefully read the precautions before using the device.

Environmental conditions:

- Lay the device horizontally on a stable and solid surface in case the device may fall, causing serious damage.
- Leave plenty of space around the device and do not block the openings for ventilation. NEVER DROP OR INSERT ANY OBJECTS OF ANY KIND INTO THE VENTILATION OPENINGS.
- Slots and openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the device for ventilation. NEVER INSERT OBJECTS OF ANY KIND INTO THE VENTILATION OPENINGS.
- Use this product in environments with ambient temperatures between 0°C and 45°C.
- DO NOT LEAVE THIS DEVICE IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY BE BELOW -20° C (-4° F) OR ABOVE 80° C (176° F). This could damage the device. The device must be used in a controlled environment.

Take care of your products:

- Before cleaning the device, turn it off and unplug all cables such as power in case a small amount of electrical current may still flow.
- Use neutral cleaning agents or diluted alcohol to clean the device chassis with a cloth. Then wipe the chassis with a dry cloth.
- Vacuum the dust with a computer vacuum cleaner to prevent the air vent or slots from being clogged.



WARNING

Attention during use:

- Do not use this product near water.
- Do not spill water or any other liquids on your device.
- Do not place heavy objects on the top of the device.
- Operate this device from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your distributor or local power company.
- Do not walk on the power cord or allow anything to rest on it.
- If you use an extension cord, make sure that the total ampere rating of the product plugged into the extension cord does not exceed its limits.

Avoid Disassembly

You are not suggested to disassemble, repair or make any modification to the device. Disassembly, modification, or any attempt at repair could generate hazards and cause damage to the device, even bodily injury or property damage, and will void any warranty.



CAUTION

Danger of explosion if internal lithium-ion battery is replaced by an incorrect type. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Warranty Policy

- **Included standard manufacturer products:**
24-month (2-year) warranty from the date of shipment. If the date of shipment cannot be ascertained, the product serial numbers can be used to determine the approximate shipping date.
- **3rd-party parts:**
12-month (1-year) warranty from delivery for the 3rd-party parts that are not manufactured by us, such as CPU, memory, HDD, power adapter, panel and touchscreen.
- * Products, however, that fail due to misuse, accident, improper installation or unauthorized repair shall be treated as out of warranty and customers shall be billed for repair and shipping charges.

Technical Support & Services

1. Visit the our website to find the latest information about the product.
2. If you need any further assistance from your distributor or sales representative, prepare the following information of your product and elaborate upon the problem.
 - Product model name
 - Product serial number
 - Detailed description of the problem
 - The error messages in text or in screenshots if there is any
 - The arrangement of the peripherals
 - Software in use (such as OS and application software, including the version numbers)
3. If repair service is required, you can download the RMA form at our website > **Support > RMA Service**. Fill out the form and contact your distributor or sales representative.

Table of Contents

Compliance.....	iii
Important Safety Information	iv
WARNING	iv
CAUTION	v
Warranty Policy.....	v
Technical Support & Services	v
Chapter 1 General Information	1
1.1 Introduction	2
1.2 Features.....	2
1.3 Packing List	3
1.4 Optional Accessories	3
1.5 Specifications.....	4
1.6 Overview.....	6
1.7 Dimensions	8
Chapter 2 Installation and Motherboard Information.....	9
2.1 Hardware Installation	10
2.2 Connector Locations on Motherboard	12
2.3 Jumper & Connector Quick Reference Table	13
Chapter 3 System Setup.....	21
3.1 System Quick Installation	22
3.2 Playing Mode	24
3.3 Exit from Playing Mode	25
3.4 Wireless Connection	26
3.5 Firmware Update	28
3.6 Loading Factory Default	30
Chapter 4 Content Management	31
4.1 ADPlayer.....	32
4.2 Uploading and Updating Media Files.....	34
4.3 Editing Media Files.....	35

4.4	Setting up the Playing Schedule	36
Appendix		37
A.	APK Example Content	38
B.	The Protocol File of ADPlayer	38

Chapter 1

General Information

The information provided in this chapter includes:

- Features
- Packing List
- Specifications
- Overview
- Dimensions

1.1 Introduction

SA-112-N, a Digital Signage Player series, is an Android / Linux system for general applications. It is a fanless signage player with ARM®-based Cortex® A9 i.MX6 Dual/Quad processor and outputs through HDMI or VGA. The device provides 3D graphics acceleration and supports various peripherals, such as RS-232 COM, CAN, USB, VGA and HDMI, and audio line-out. The device is able to be operated at the ambient operating temperature ranging from -40 ~ 75 °C, and even up to 85 °C for storage.



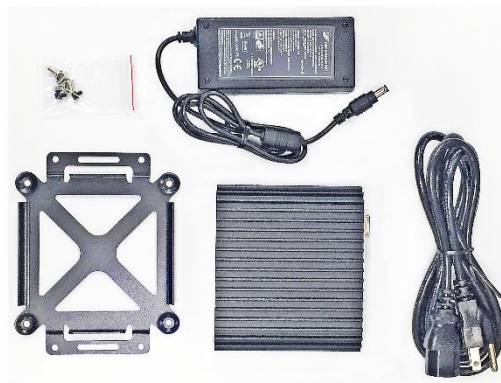
1.2 Features

- Freescale™ ARM®-based Cortex®-A9 i.MX6 Dual Lite Commercial 1GHz / Quad Automotive 1GHz Processor
- Built-in an eMMC NAND flash 8GB on board
- DDR3L, 1GB 533MHz (1066MT/s) on board
- Display via VGA or HDMI (without HDCP)
- Gigabit Ethernet, RS-232 COM port, Mini-USB (OTG) slot, SD card storage
- CAN-based, Mini PCIe slot for 4G wireless (optional)
- WiFi networks
- 5V DC-in power input
- Ruggedized, fanless and compact design

1.3 Packing List

Your SA-112-N package should include the items listed below. If any of the items below is missing, contact the distributor or the dealer from whom you purchased the product.

- SA-112-N Android / Linux Digital Signage Player
- SA-112-N Bracket
- Power Adapter
- Power Cord
- Screws (4 x M4, 2 x M3)



1.4 Optional Accessories

We provide optional accessories as follows. Please contact us or your dealer if you need any.

- WiFi Cable Kit
- Internal GPS Cable (100 mm)
- External GPS Antenna (3G / 4G)
- COM Port Cable (150 cm)

1.5 Specifications

Product	SA-112-NDL	SA-112-NQC
System		
Mainboard	MBD112	
Operating System	- Android 4.4.2 VGA or HDMI output - Linux Ubuntu 12.04 (kernel 3.0.5) VGA or HDMI output	- Android 4.4.2 VGA+HDMI or VGA or HDMI output - Linux Ubuntu 12.04 (kernel 3.0.5) VGA or HDMI output
CPU	NXP / Freescale™ ARM®-based Cortex®-A9 - i.MX6 Dual Lite Commercial 1GHz processor - i.MX6 Quad Automotive 1GHz Processor	
Chipset	Integrated	
Memory	DDR3L 1GB 533 MHz (1066 MT/s) on board	
Flash	1 x eMMC 8GB on board	
Graphics	i.MX53 + VP6 / WebM VP8, H.264 MVC	
Power Requirement	5V DC-in	
Power Supply	25 W power adapter (Optional)	
Wireless	Built-in WiFi module 802.11 a/b/g/n	
Watchdog	Watchdog Timer 256 segments, 0, 1, 2...255 sec/min	
TV Standard	NTSC, PAL	
Chassis	Aluminum and SGCC, black & white	
Mounting	Standard system bracket	
Dimensions (W x H x D)	117 x 35.1 x 104.5 mm (4.61" x 1.38" x 4.11")	
Net Weight	0.5 kg (1.1 lb)	
Certificate	CE, FCC, cULus, CCC	
I/O Ports		
Display	1 x HDMI (up to 1920 x 1080) 1 x VGA	
LAN	1 x GbE RJ45	
Serial Port	1 x COM (RS-232)	
USB	2 x USB 2.0 Type A 1 x Mini-USB (OTG)	

SD Card	1 x SD/SDHC card slot (FAT32 and NTFS formats), up to 32 GB
Audio Jack	1 x Line-out (3.5 mm)
Expansion	1 x Mini PCIe (x1) slot for 4G wireless (Optional)
Media Output Format	
Video	Up to 1920 x 1080 MPEG4, H.263, MPEG-1/2, VP8 (1280 x 720), H.264
Audio	AAC, He-AAC, MP3, MP3 VBR, WAV
Photo	Up to 8192 x 8192 JPEG
Environment	
Temperature	• Operating: -40 ~ 75 °C (-40 ~ 167 °F), without adapter • Storage: -50 ~ 85 °C (-58 ~ 185 °F)
Relative Humidity	5 ~ 90% (non-condensing)
Vibration Protection	Operating, random vibration 5 grms (5~500Hz)

All specifications are subject to change without prior notice.

1.6 Overview

Front View



Rear View



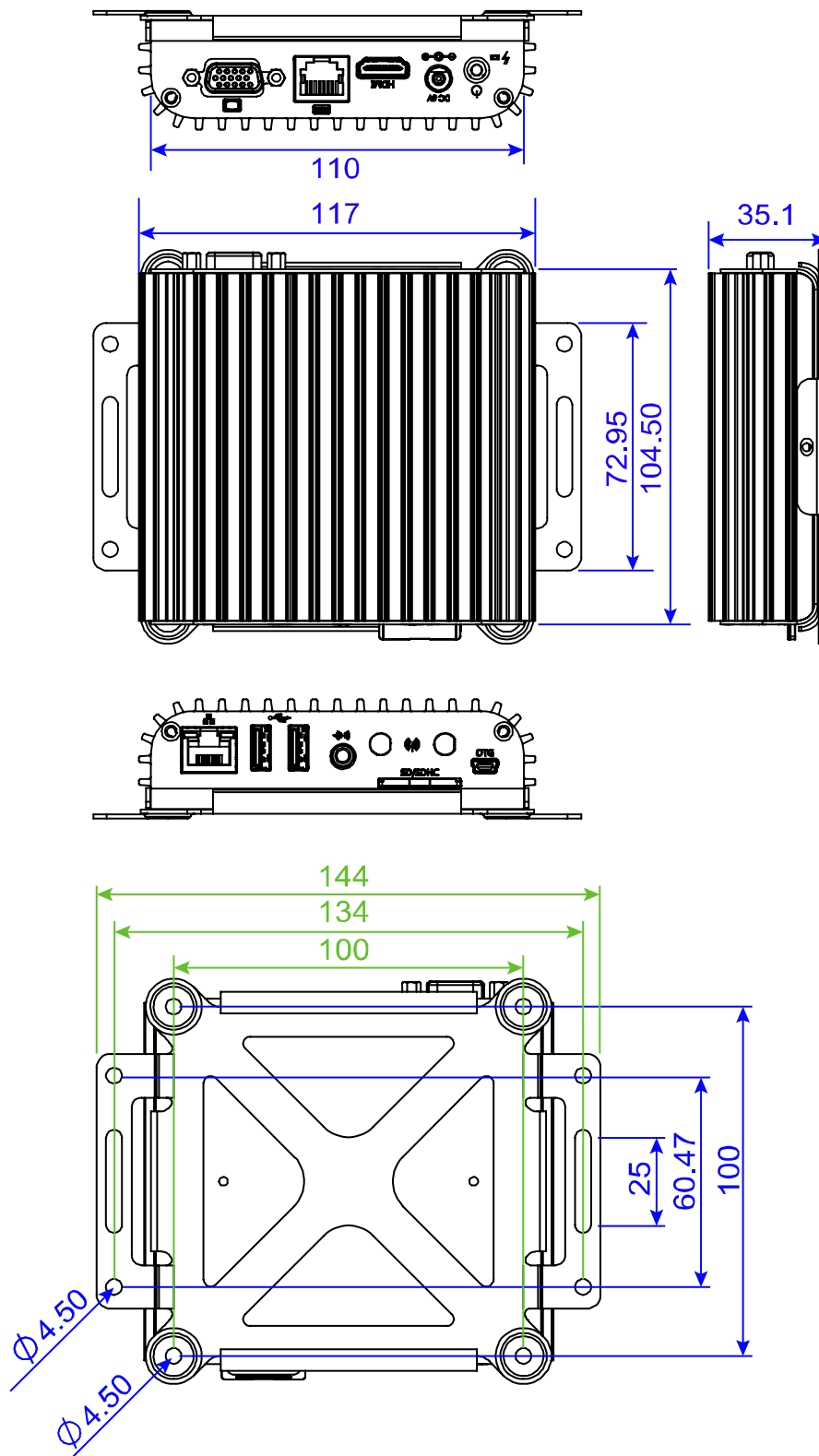
No.	Name	No.	Name
1	LED Indicators	7	LAN Port
2	Power Button	8	USB 2.0 Port
3	DC Jack	9	Audio Line Out
4	HDMI Port	10	SD Card Slot
5	COM RJ45 Port	11	USB OTG Port
6	VGA Port	12	WiFi / 3G / 4G Antenna Hole

Oblique View



1.7 Dimensions

Unit: mm



Chapter 2

Installation and Internal Motherboard Information

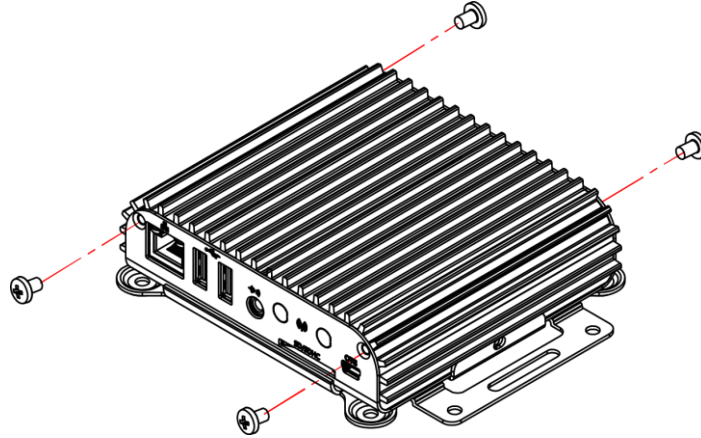
The information provided in this chapter includes:

- Hardware Installation
- Information and locations of connectors

2.1 Hardware Installation

2.1.1 WiFi / 3G / 4G Module Installation

1. Remove the following 4 screws to remove the cover of SA-112-N.



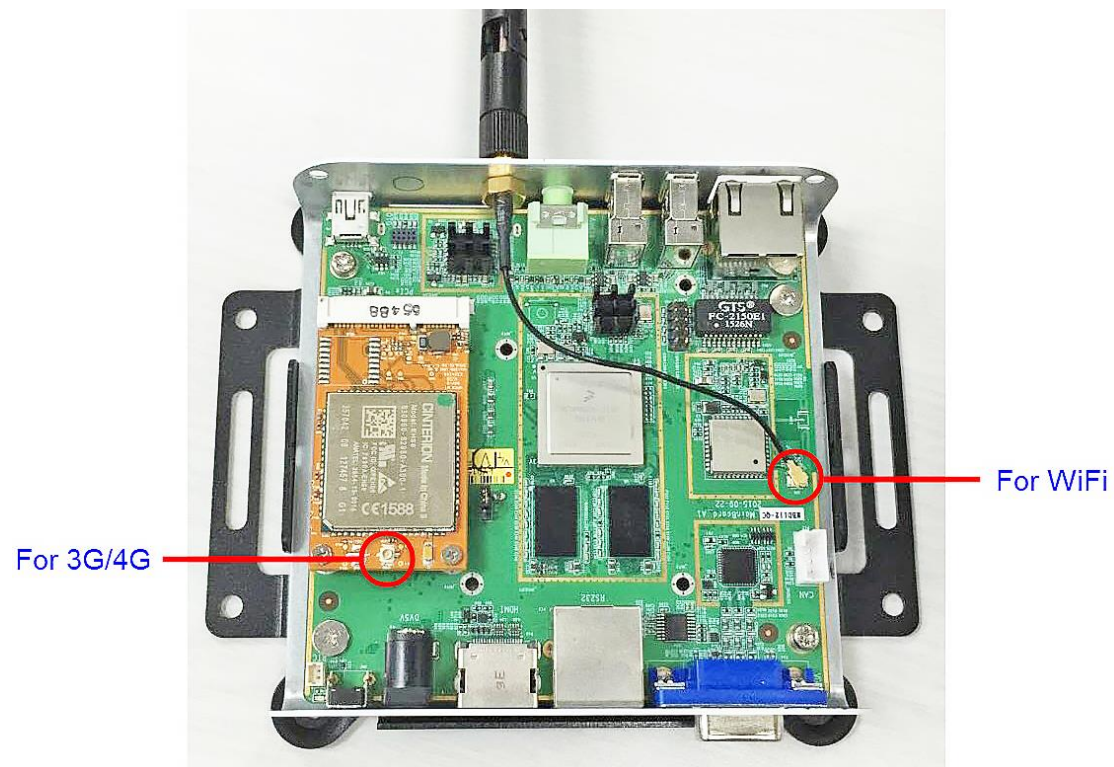
2. Remove the cover, thread the WiFi / 3G / 4G antenna and cable through an antenna hole and fasten the antenna.



3. Install the module card into the mini-PCle slot by inserting the card slantwise. Then push it down and fasten 2 screws.

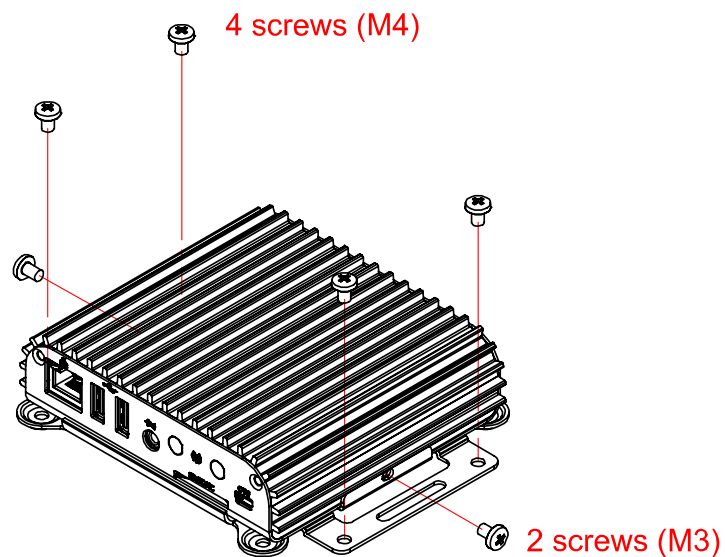


4. Fix the other end of the cable onto the board to receive signals.



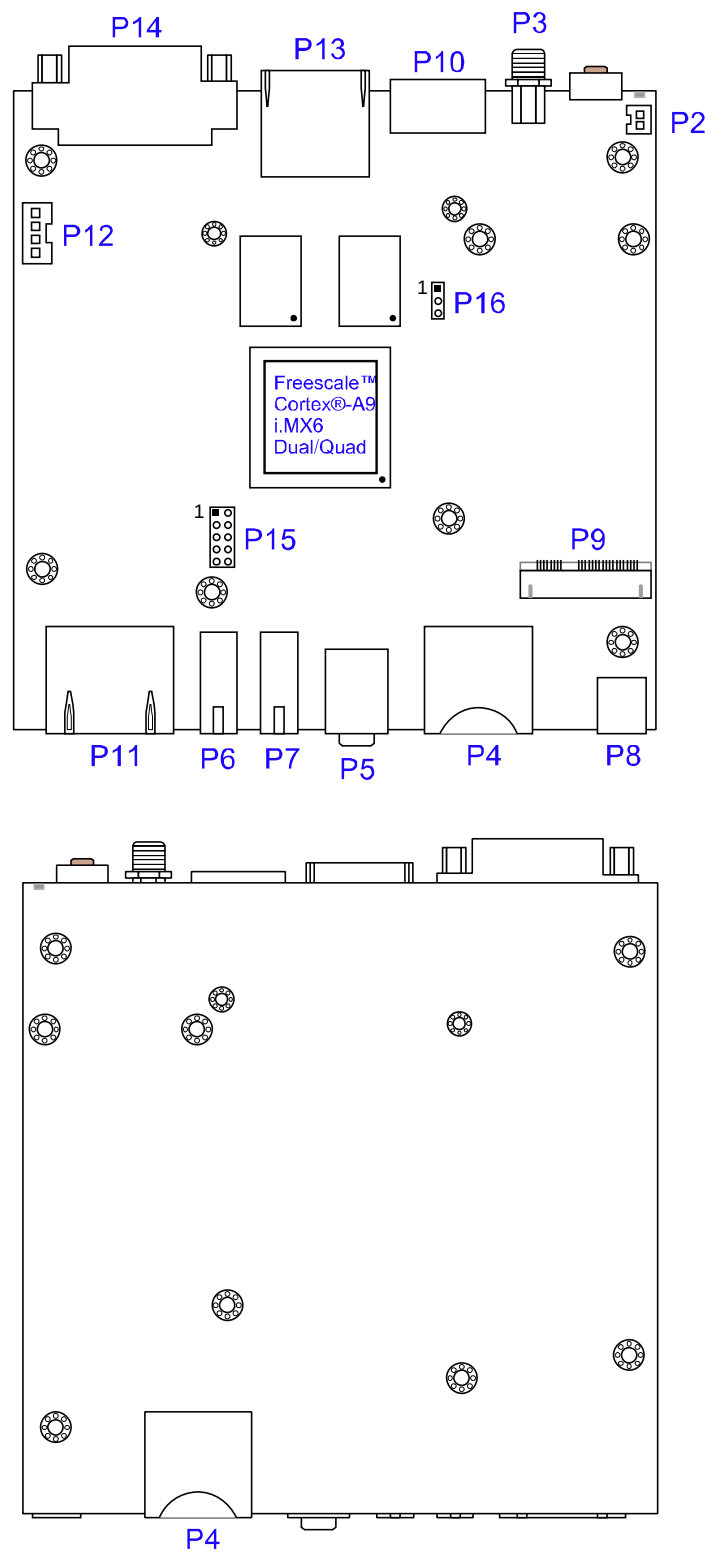
2.1.2 Wall Mount Installation

Fasten 6 screws for VESA mount installation.



2.2 Connector Locations on Motherboard

Motherboard: MBD112



2.3 Jumper & Connector Quick Reference Table

Jumper:

Function	Connector Name	Page
AT / ATX Power Mode Connector	P16	14

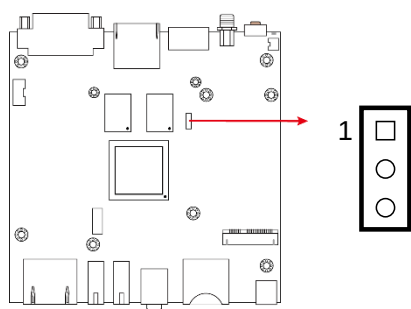
On-board connectors:

Function	Connector Name	Page
CAN Connector	P12	14
GPIO Connector	P15	15
Mini PCIe Connector	P9	16
RTC Battery Connector	P2	17

I/O coastline connectors:

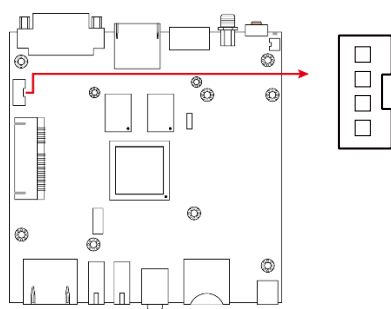
Function	Connector Name	Page
Audio Jack	P5	17
COM RJ45 Port	P13	17
DC Jack	P3	18
HDMI Port	P10	18
Mini USB OTG Port	P8	18
RJ45 LAN Port	P11	19
SD Card Connector	P4	19
USB 2.0 Port	P6, P7	19
VGA Port	P14	20

2.3.1 AT / ATX Power Mode Connector (P16)



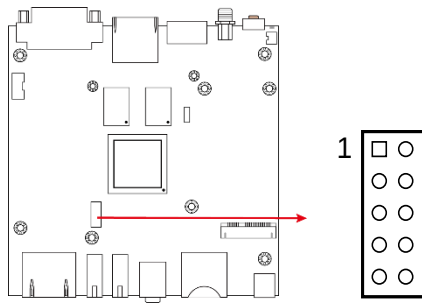
Function	Pin closed	Illustration
ATX Mode	1-2	1
AT Mode	2-3	1

2.3.2 CAN Connector (P12)



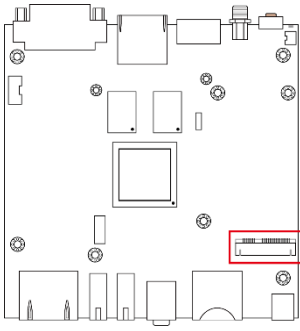
Pin	Assigment
1	5V
2	CAN2_RX
3	CAN2_TX
4	GND

2.3.3 GPIO Connector (P15)



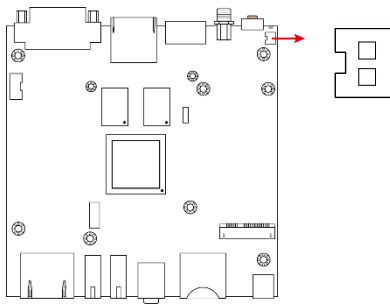
Pin	Assignment	Pin	Assignment
1	GND	6	VDD
2	OUTPUT 3	7	OUTPUT 1
3	OUTPUT 2	8	OUTPUT 0
4	INPUT 3	9	INPUT 1
5	INPUT 2	10	INPUT 0

2.3.4 Mini PCIe Connector (P9)



Pin	Assignment	Pin	Assignment	Pin	Assignment
1	nWAKE	19	NC	36	USB-D-
2	VDD	20	nDISABLE	37	GND
3	NC	20	GND	38	USB-D+
4	GND	21	GND	39	VDD
5	NC	22	Nreset	40	GND
6	NC	23	NC	41	VDD
7	NC	24	GND	42	NC
8	NC	25	NC	43	GND
9	GND	26	NC	44	NC
10	NC	27	GND	45	AUD4_TXC
11	NC	28	NC	46	NC
12	NC	29	GND	47	AUD4_TXD
13	NC	30	NC	48	NC
14	NC	31	NC	49	AUD4_RXD
15	GND	32	NC	51	AUD4_TXFS
16	NC	33	NC	52	VDD
17	NC	34	GND		
18	GND	35	GND		

2.3.5 RTC Battery Connector (P12)



Pin	Assignment
1	Battery +
2	Battery -

2.3.6 Audio Jack (P5)

Pin	Assignment
1	GND
2	HP_RIGHT
3	GND
4	HP_DET_B
5	HP_LEFT

2.3.7 COM RJ45 Connector (P13)

Pin	Assignment	Pin	Assignment
1	NC	6	NC
2	GND	7	NC
3	GND	8	CTS
4	RX	9	RTS
5	TX	10	NC

2.3.8 DC Jack (P3)

Pin	Assignment
1	DC_5V
2	DC_GND

2.3.9 HDMI Port (P10)

Pin	Assignment	Pin	Assignment
1	TX2_P	11	GND
2	GND	12	TXC_N
3	TX2_N	13	CEC_A
4	TX1_P	14	NC
5	GND	15	DSCL
6	TX1_N	16	DSDA
7	TX0_P	17	GND
8	GND	18	VDD
9	TX0_N	19	HPD
10	TXC_P		

2.3.10 Mini USB OTG Port (P8)

Pin	Assignment
1	5V
2	D-
3	D+
4	USB_OTG_ID
5	GND

2.3.11 RJ45 LAN Port (P11)

Pin	Assignment	Pin	Assignment
1	TRX0+	7	TRX3+
2	TRX0-	8	TRX3-
3	TRX1+	9	LED_Y+
4	TRX2+	10	LED_Y-
5	TRX2-	11	LED_G+
6	TRX1-	12	LED_G-

2.3.12 SD Card Connector (P4)

Pin	Assignment	Pin	Assignment
1	SD2_DATA3	6	GND
2	SD2_CMD	7	SD2_DATA0
3	GND	8	SD2_DATA1
4	VDD	9	SD2_DATA2
5	SD2_CLK	10	SD_DET_B

2.3.13 USB 2.0 Port (P6, P7)

Pin	Assignment
1	5V
2	D-
3	D+
4	GND

2.3.14 VGA Port (P14)

Pin	Assignment	Pin	Assignment
1	VGA_R	9	5V
2	VGA_G	10	GND
3	VGA_B	11	NC
4	NC	12	SDA
5	GND	13	VGA_HS
6	GND	14	VGA_VS
7	GND	15	SCL
8	GND		

Chapter 3

System Setup

The information provided in this chapter includes:

- System Quick Installation
- Playing Mode
- Exit from Playing Mode
- Wireless Connection
- Firmware Update
- Loading Factory Default

3.1 System Quick Installation

To set up your SA-112-N, place the device on a flat, stable and solid surface, and prepare all the items in the package. Then follow the steps below for quick installation.

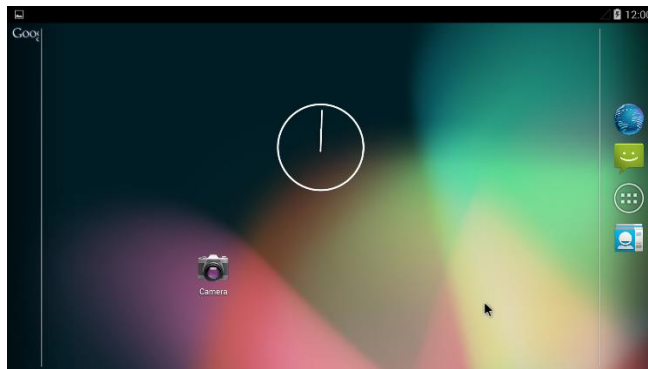
1. Connect your SA-112-N to a display device with supplied HDMI cable.
2. Use the supplied power adapter and power cable to supply power to SA-112-N and turn on the device.
3. For remote control, connect any of your USB mouse/keyboard or wireless receiver to the USB port of the dongle to set up a wireless network.
4. Install an SD card or USB flash drive if you have.
5. Turn on your display device and set its input source to the selected HDMI port.

3.1.1 Default Function

SA-112-N will automatically run the default function.

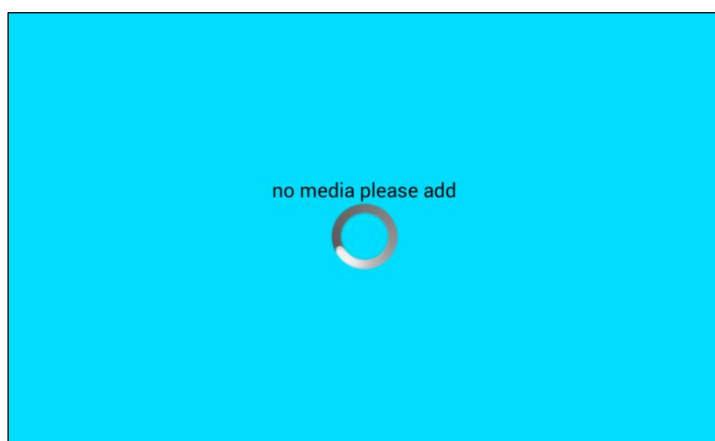
1. If your SA-112-N is pre-loaded with a standard Android operating system, use the device as a typical Android device. You can skip the following information and directly refer to Chapter 3 Content Management to upload media files.

You will see the following main desktop screen.



If your device is also pre-loaded with any demo application file (*.apk), the player will automatically start and play back a loop of videos or pictures repeatedly. You can update or change these media files.

2. If your SA-112-N does not have any media content pre-loaded, the below screen will show up and you will need to upload media files. Refer to *Chapter 3 Content Management*.



3.2 Playing Mode

All the media files including videos, images and text files detected from an SD card, a USB flash drive, or from the ADPlayer over the network, will be played in a loop repeatedly.

The images are played with a default interval of 10 seconds, and the interval is only configurable by the support. The text messages scroll automatically.

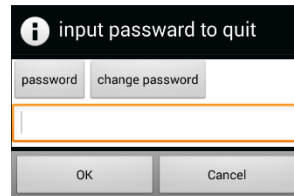
Note: The video files playing over the network should be short in length.

For more information about updating media files, refer to Chapter 3 Content Management.

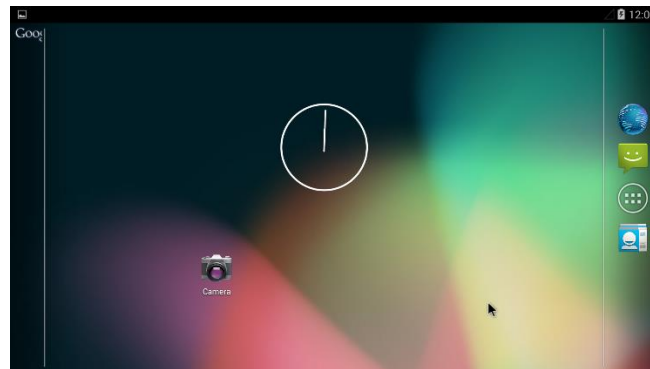
3.3 Exit from Playing Mode

To exit from the playing mode, you can either right-click the mouse or press the **ESC** button on the keyboard, and you will need to enter a password. The default password is IBASE.

The following screenshots are based on Android.



After exiting from the playing mode, you will see the *Home* screen of Android below. Then if there is no user activity for 60 seconds, the system will return to the playing mode automatically.



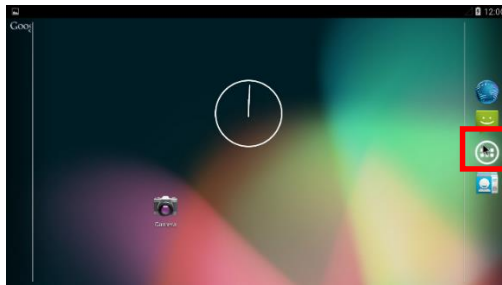
3.4 Wireless Connection

3.4.1 WiFi Connection

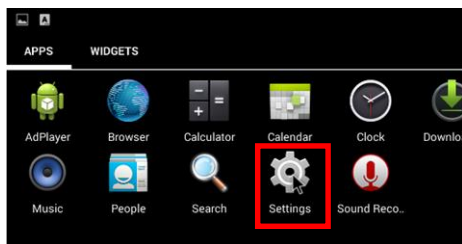
With the built-in WiFi module in SA-112-N, you are able to access to network on this device. Follow the steps below to turn on WiFi.

The following screenshots are based on Android.

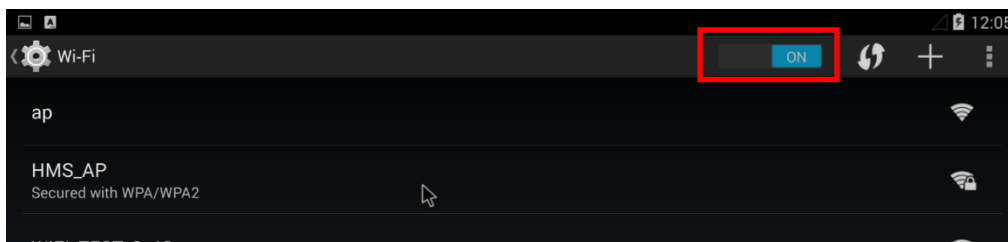
1. On the *Home* screen of SA-112-N, click the **Menu** icon .



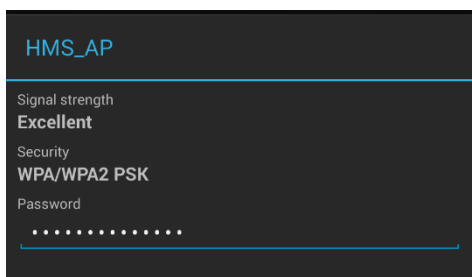
2. In the APPS tab, click **Settings** in the APPS tab.



3. Click **Wi-Fi**, and turn it on.



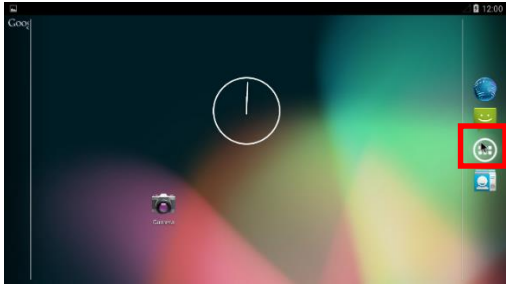
4. Select a WiFi network from list of available networks that the device has found. If it's a secure network and this is the first time you use the network, you'll need to enter a password.



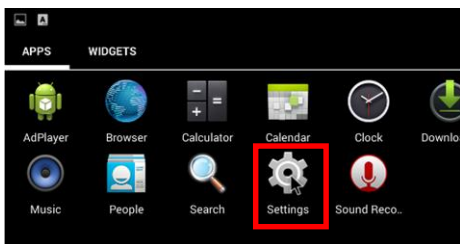
5. When the device successfully connects to the WiFi network, the WiFi symbol  will appear at the top right of the screen, and you can access to Internet now.

3.4.2 Bluetooth Connection

1. On the *Home* screen, click the **Menu** icon .



2. In the APPS tab, click **Settings** in the APPS tab.



3. Click **Bluetooth**, and turn it on.

3.5 Firmware Update

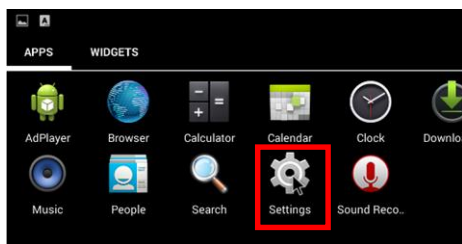
To update the firmware of SA-112-N, you need to contact support for the latest new firmware image, copy it to a USB flash drive or an SD card, and insert to the device. Then update the firmware by referring to the following instructions.

The following screenshots are based on Android.

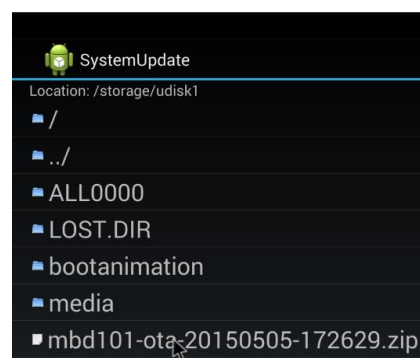
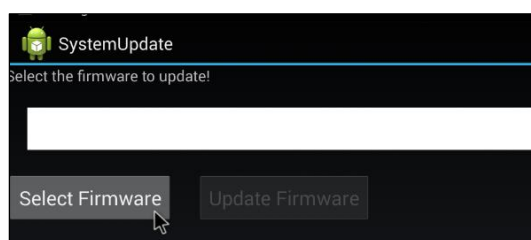
1. On the *Home* screen, click the **Menu** icon .



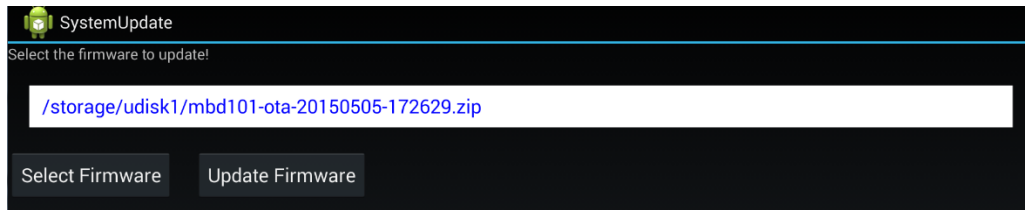
2. In the APPS tab, click **Settings**, click **About tablet**, and select **Additional.system updates**.



3. The *System Update* screen will appear. Click **Select Firmware** to select a firmware image from the USB flash drive or the SD card to update.



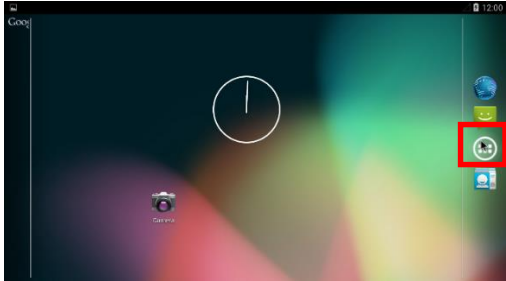
4. In this example, the firmware image is named "mbd101-ota-20150505-172629.zip". Click **Update Firmware** to start.



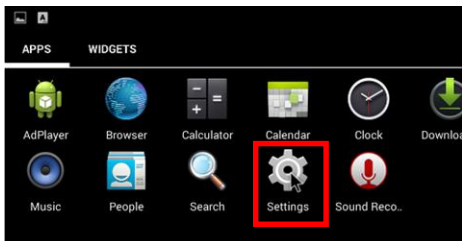
3.6 Loading Factory Default

If you need to load the factory default settings, follow the steps below.

1. On the *Home* screen, click the **Menu** icon .



2. In the APPS tab, click **Settings** in the APPS tab.



3. Click **Factory Data Reset** and the factory default settings will be automatically loaded.

Chapter 4

Content Management

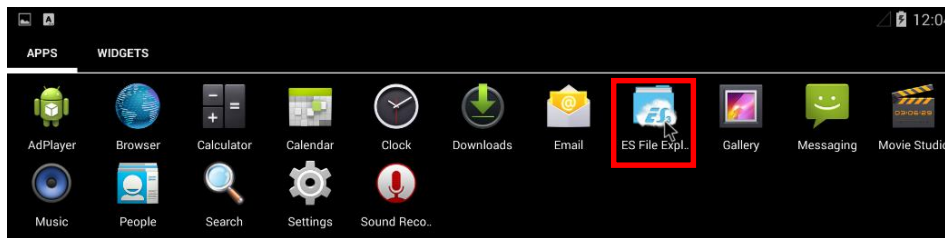
The information provided in this chapter includes:

- ADPlayer
- Uploading / Updating Media Files
- Editing Media Files
- Setting up the Playing Schedule

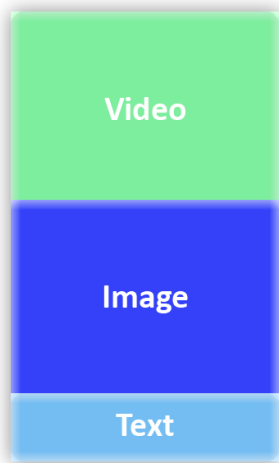
4.1 ADPlayer

Before you start to use the system, you need to:

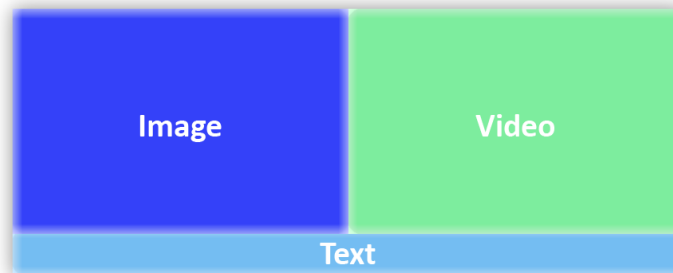
1. Remove the file *PlayerWatchDog.apk* from the path /system/priv-app. Then reboot SA-112-N.
2. Download the application *Adplayer.apk* and install it. Click the Menu icon  on the *Home* screen, click **ES File Explore**, and click the *Adplayer.apk* for installation.



The Advance ADPlayer is a software program applying for SA-112-N, supporting 2 types of screen layout as below – portrait and landscape. Choose a desired type of layout per your request. We also provide another software program if a specific screen layout is preferred.



Layout – Portrait



Layout - Landscape

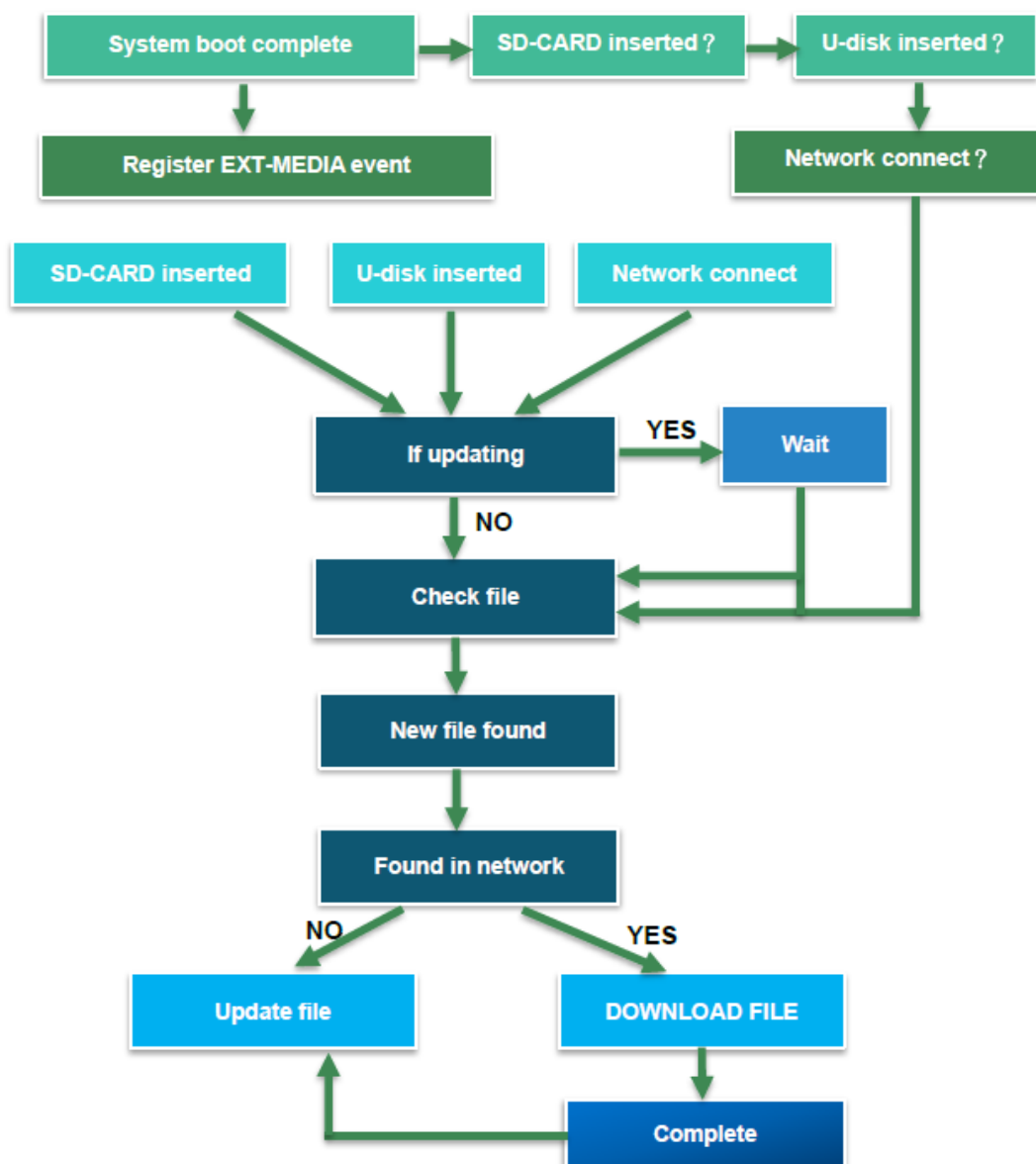
The ratio of the screen size is not configurable. If you need a layout consisting of 2 or 3 screens, provide to the support with the desired layout arrangement, sizes and resolutions, and we will generate a target software image for you.

The content media files can be updated from an SD card, USB flash drive, or from a network. Network update is only applicable for exporting small-sized media files.

For the supported formats of media files, refer to the following table (also listed in Chapter 1, *1.5 Specifications*.)

Media Output Format	
Video	Up to 1920 x 1080 MPEG4, H.263, MPEG-1/2, VP8 (1280 x 720), H.264
Audio	AAC, He-AAC, MP3, MP3 VBR, WAV
Photo	Up to 8192 x 8192 JPEG

The content manager will regularly keep checking the media files from the SD card, USB flash drive, and the network directory. If there is any change made to the media content, the text message file *text.xml* will be updated.



4.2 Uploading and Updating Media Files

You need to upload media files to SA-112-N when using the digital signage player for the first time.

1. Turn on SA-112-N.
2. Prepare and install a USB flash drive or an SD card pre-uploaded with the desired media files under a folder named **media**.

Alternatively, you can set up a network connection to update the content from the ADPlayer.

The media files will be located:

- **Video:** SD card (or USB flash drive, or ADPlayer) /media/video/
- **Image:** SD card (or USB flash drive, or ADPlayer) /media/picture/
- **Text:** SD card (or USB flash drive, or ADPlayer) /media/text.xml

The text messages are separated by the tag <msg> </msg> in the file text.xml.

3. As the media files are detected, they will be transferred from the USB flash drive, SD card, or from the ADPlayer over the network to the device automatically.

After the media files have been completely transferred, SA-112-N will start to play these files.

Note:

1. Do not turn off SA-112-N or remove the USB flash drive or SD card during transfer.
 2. It may take some time to transfer large-sized media files.
-

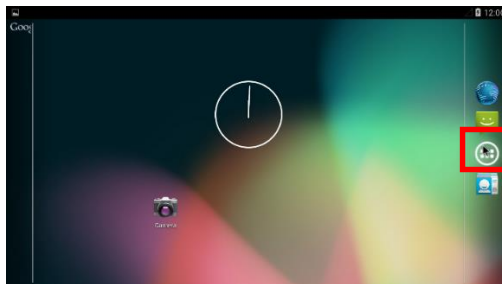
You can update media files in the same way.

4.3 Editing Media Files

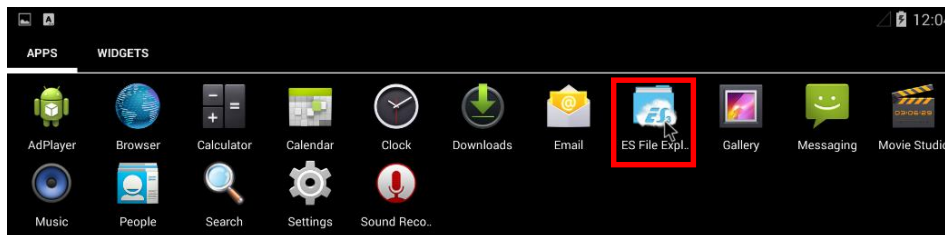
Not only can you edit the media files saved on SA-112-N, but the media files saved either on the USB flash drive or on the SD card can also be edited when inserted to the device.

Before editing media files, you need to exit from the Ad Player mode and return to the *Home* screen. The following screenshots are based on Android.

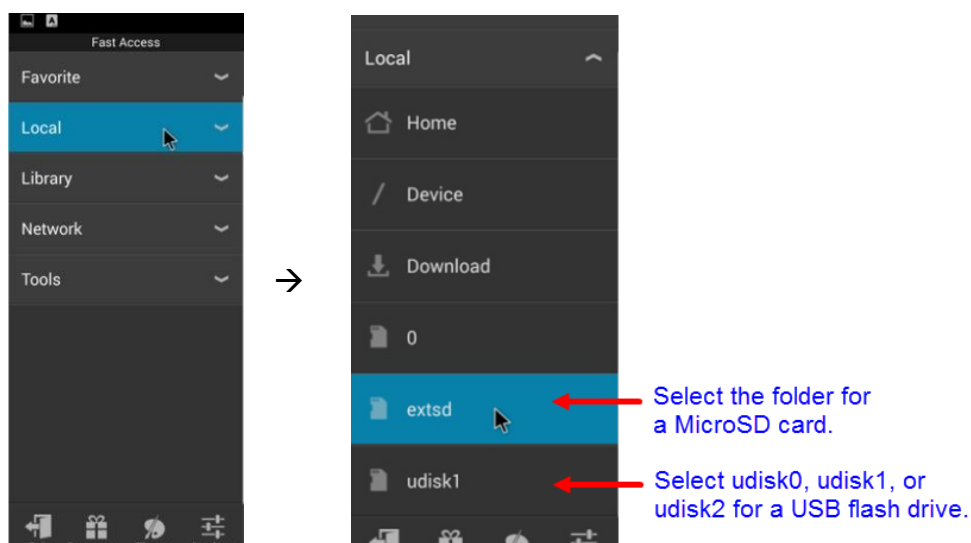
1. On the *Home* screen, click the **Menu** icon .



2. Click **ES File Explore** in the APPS tab.



3. Click **Local**.
 - If you are using an SD card, open the folder **extsd** to find the media files.
 - If you are using a USB flash drive, open the fold **udisk0**, **udisk1**, or **udisk2** to find the media files.



4. Select a desire media file and start to edit.

4.4 Setting up the Playing Schedule

The media playing schedule goes on the basis of the names of the media files. You can create a naming convention with respect to ordering relation and make the filenames all begin with a numeric or alphabetical character in a contiguous sequence.

Appendix

The information provided in this chapter includes:

- APK Example Content
- The Protocol File of ADPlayer

A. APK Example Content

Please contact your support to get a APK example content.
basically a list of .JPG, .MPG and .XML files like this one below

B. The Protocol File of ADPlayer

The software application ADPlayer usually checks the protocol file indicating the whether there is any change made to the media content.

The content of the protocol file:

```
<infos>
<!--it must contains this section, the version will be got and check with the version of locale --
>
<update>
    <version>x</version>
    <name>information</version>
</update>
< update >
<name></name> <!--name will be video/picture/text-->
<prog></prog><!--prog will be "none" or "all" or "part"
none mean should not update
all means will delete the locale files and download files in server
part means keep the locale files and download files in server
-->
<item>name<item><!--update file list-->
<item>name<item><!--update file list-->

</ update >
</infos>
```

Description:

Date:	the content updated date, find the newest date to update
Update all:	all the files in the relative direction will update, and remove original file
Update section:	copy files in the relative direction and keep original file