

Haier Biomedical Customized Case Board Card Series

V40

SC3832V

Document history

Version number	Date	Prepared/Revised by	Content description
1.0.0	2017.09.04	mark	new

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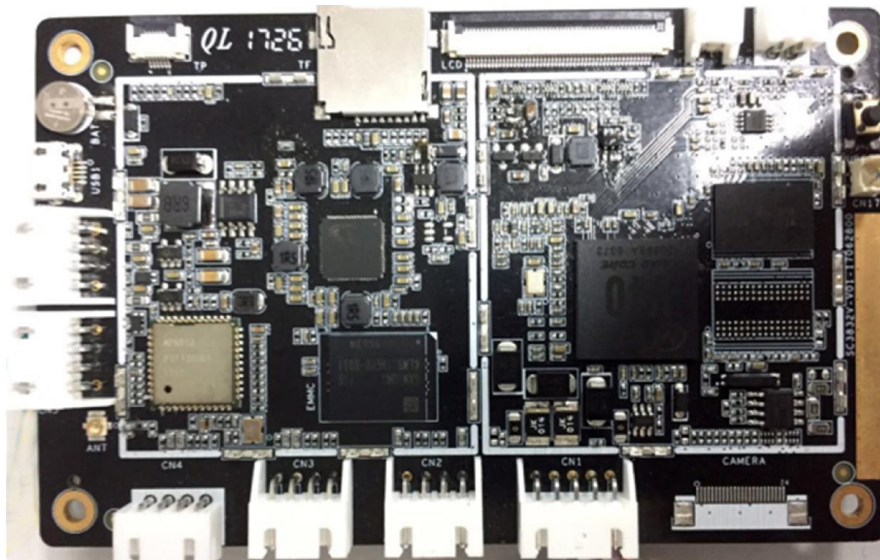
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3.3 Definition of interface-related pin	错误!未定义书签。
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Chapter IV Product Power Consumption Reference Data	错误!未定义书签。

Chapter I Product Overview

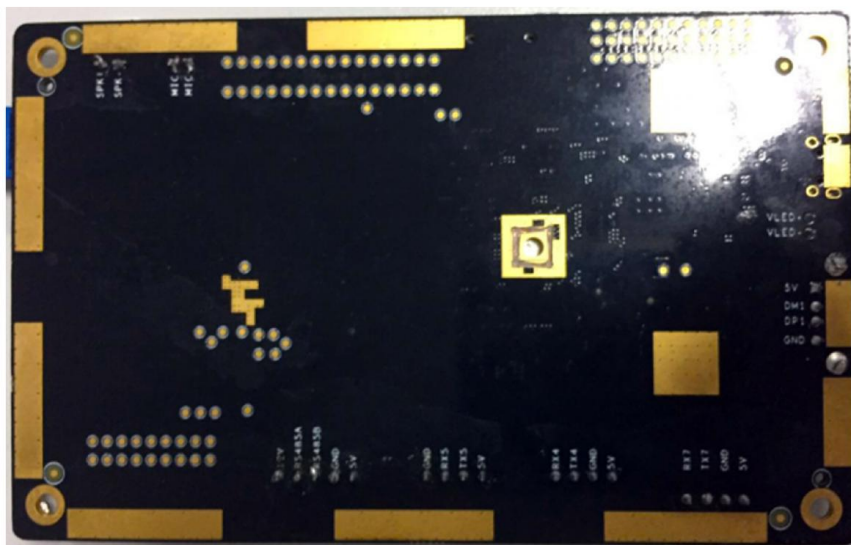
1.1. Overview

SC3832V is a customized case product developed for customers by Sochip Technology Co., Ltd. According to the customer's requirements on product, Allwinner V40 platform is selected. The product is compatible with LVDS and MIPI display, supports multiple RS232 and RS485 serial ports, and supports data transmission of multiple USB ports.

1.2. Appearance of the motherboard



Front view of the product



Rear view of the product

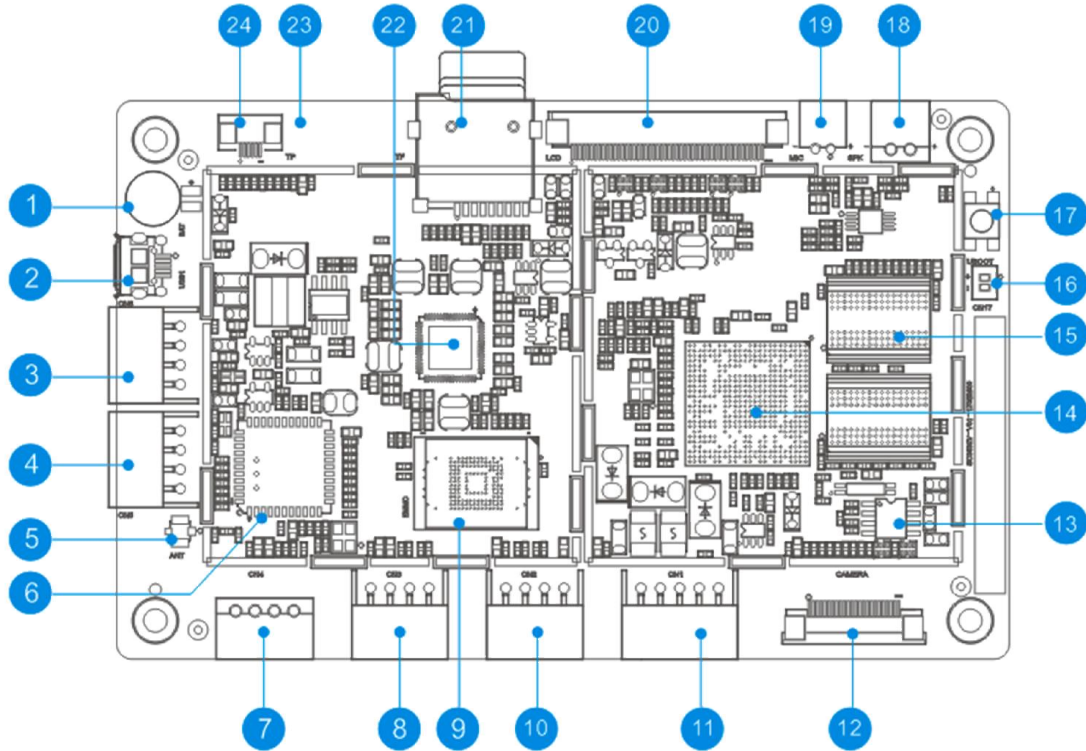
Chapter II Equipment Specification List

Item	Specification parameter
Essential parameter	<p>Processor: Quad-core ARM Cortex -A7</p> <p>Internal memory/storage: 1GB DDR3, 8G EMMC</p> <p>Operating system: Android 4.4</p> <p>Power management: AXP221</p>
wireless bluetooth	<p>BT: Bluetooth V4.0. 2402MHz ~ 2480MHz</p> <p>WiFi: IEEE 802.11b/g/n,</p> <p>Antenna: coaxial connection</p>
Basic interface	<p>USB: one-way MICRO USB supports slave, two-way pin expansion with host</p> <p>TP: support COF capacitor TP</p> <p>TF card: support 64G at most</p> <p>DC interface: RS485 power supply motherboard for customers use</p> <p>RS485:One way</p> <p>UART: Three-way</p>
Button	One UBOOT button
Video coding	<p>One way parallel interfaces up to 1080p@30fps</p> <p>Supports BT656, BT1120 and 24-bit YUV444/RGB</p>
Video decoding	<p>1 connector that supports both MIPI and/or LVDS</p> <p>Supports 4 lanes MIPI DSI up to 1080p@60fps</p> <p>Supports LVDS interface up to 1920 x 1080@60fps</p> <p>Supports RGB interface up to 1920 x 1080@60fps</p>

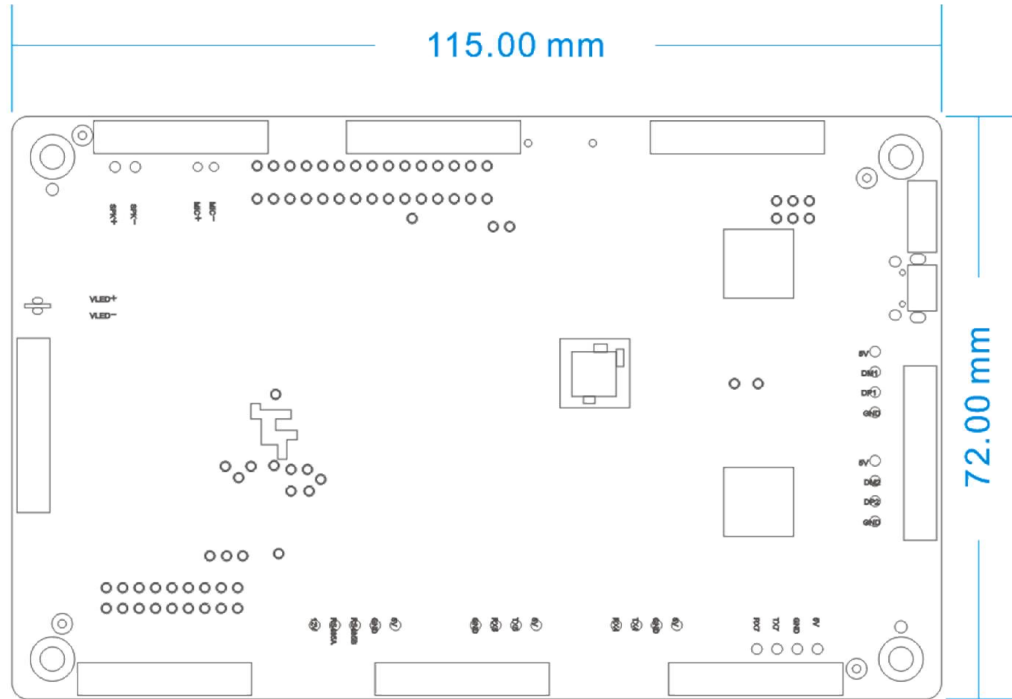
Audio output	One-way interface, customers can connect by themselves
Audio input	One-way interface, customers can connect by themselves
Product dimensions	113*72mm (motherboard size)

Chapter III Connector and Interface Function Description

3.1. PCB dimensions and interface layout



PCB front view



PCB rear view

3.2. Detail list of connector and master device materials

序号 S/N	名称 Name	类型 Type	描述 Description
1	Button cell	Parts	Backhand welding type
2	Micro USB socket	Connector	
3	USB connector	Connector	4 PIN
4	USB connector	Connector	4 PIN
5	Antenna coaxial socket	Connector	
6	Bluetooth module	Module	AP6212
7	Serial port	Connector	
8	Serial port	Connector	
9	FLASH	Chip	EMMC
10	Serial port	Connector	
11	RS485 serial port	Connector	
12	Camera connector	Connector	CSI interface for inputting YUV format

13	RS485 conversion chip	Chip	
14	V40 master control	Chip	allwinner
15	DDR	Chip	DDR 3
16	LED backlight interface	Connector	2PIN
17	UBOOT button	Button	For upgrade
18	Loudspeaker interface	Connector	2PIN
19	MIC interface	Connector	2PIN
20	LCD connector	Connector	Compatible with LVDS and MIPI screens
21	TF card connector	Connector	
22	Power management chip	Chip	AXP221S
23	PCB board	Base plates	Black
24	TP connector	Connector	

Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital 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 generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

OEM Integration Instructions

This device is intended only for OEM integrators under the following conditions:

The module can be used to installation in other host. The antenna must be installed such that 20 cm is maintained between the antenna and users, and the transmitter module may not be co-located with any other transmit or antenna. The module shall be only used with the integral antenna(s) that has been originally tested and certified with this module. As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirement with this module installed (for example, digital device emission, PC peripheral requirements, etc.)

IMPORTANT NOTE:

In the event that these conditions cannot be met (for example certain laptop configuration or co-location with another transmitter), then the FCC authorization for this module in combination with the host equipment is no longer considered valid and the FCC ID of the module cannot be used on the final product. In these and circumstance, the OEM integrator will be responsible for re-evaluating. The end product (including the transmitter) and obtaining a separate FCC authorization. The final end product must be labeled in a visible area with the following:

“Contains Transmitter Module FCC ID: 2ASR8SC3832” or

“Contains FCC ID: 2ASR8SC3832”.

Antenna Specification:

Antenna Type:	PCB Antenna
Antenna Gain:	3.9dBi