



M1505_EVB User Manual

Smart Module Series

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Date: 2016-10-31



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Version History

Date	Version	Modify records	Author
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1. Overview

This document defines and specifies the usage of M1505_EVB. You can know how to use M1505_EVB and tools from this document.

2. M1505_EVB and Interface Introduction

M1505_EVB is designed for valuation and test of M1505 module to help developers to debug and test M1505 module. The following figure shows the label of the main functions of M1505_EVB. This article will describe the various parts of its functions in later chapters.

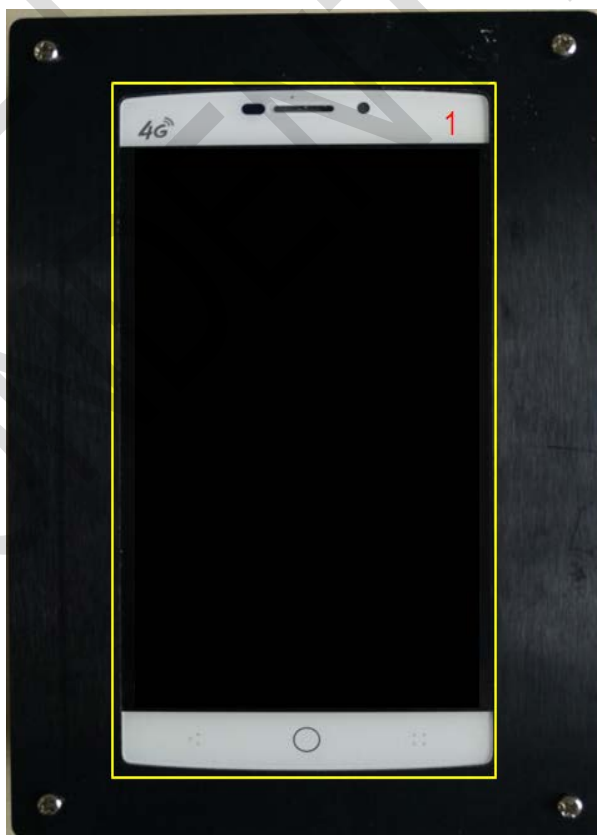


Figure 1 M1505_EVB Front view

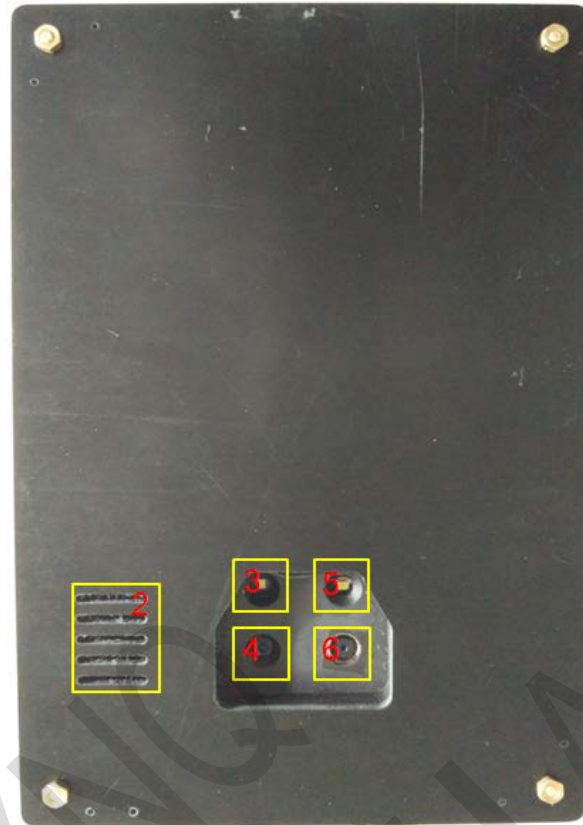


Figure 2 M1505_EVB Rear view

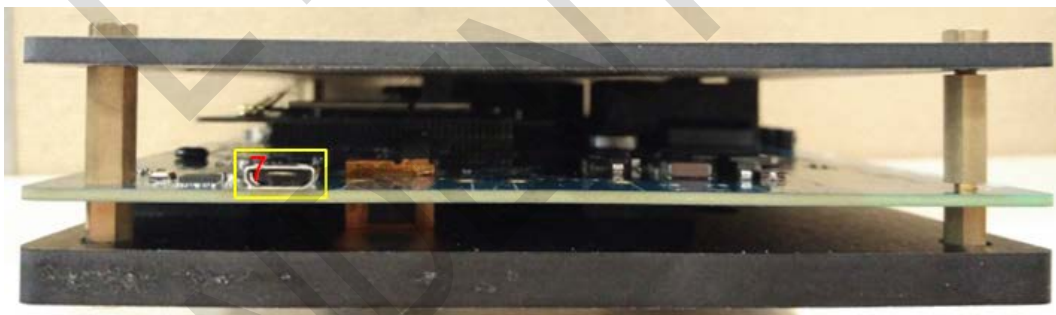


Figure 3 M1505_EVB Downward view



Figure 4 M1505_EVB Upward view

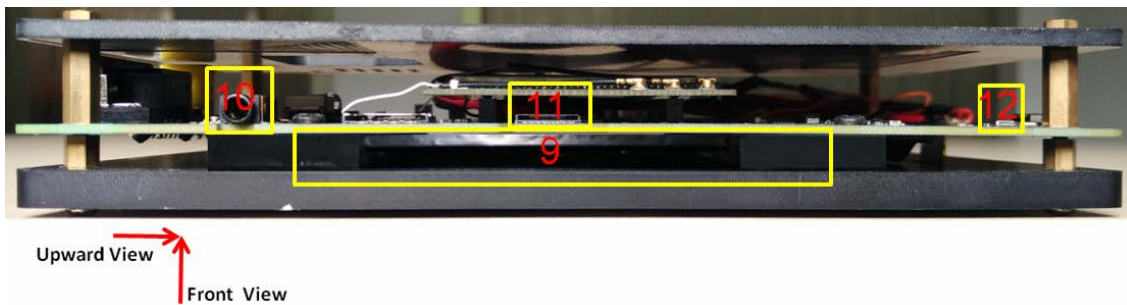


Figure 5 M1505_EVB Left view



Figure 6 M1505_EVB Right view

Table 1 Label illustrate

1.LCD(HD1280*720)	2.Speaker	3.Flashlight
4.Sub Camera(2MP)	5.Flashlight	6.Mian Camera (5MP)
7.USB Interface	8.UART Interface	9.Battery
10. Headset Interface	11.TF Card	12.Main MIC
13.Powerkey	14.SYSRSTB	15.Volume+
16.Volume+	17.Volume-	18.Sub MIC

3. M1505_EVB External Device and Functional Test

3.1 Power Supply

Such as figure 7, “9, Battery”, 3.50-4.35V battery power supply.



Figure 7 M1505_EVB Battery

3.2 Power Key and Hardware Reset

Such as figure 8, pressing the “13, Powerkey” key of the SOM with 3 to 5 seconds, it can open the SOM. In the boot state, pressing "13, Powerkey" can enter standby mode. In the boot state, pressing "13, Powerkey" 2 to 3 seconds can choose to Shutdown SOM. If you press the “14, SYSRSTB” key, you can make the SOM power off.

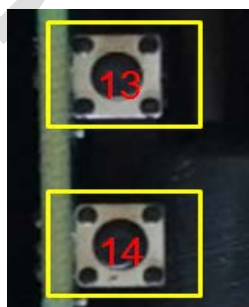


Figure 8 Powerkey and SYSRSTB

Note: In the boot state, pressing the SYSRSTB is power off, not restart.

Pressing Powerkey 11 to 13 seconds can restart the SOM.

3.3 UART Interface

Such as figure 9, the M1505_EVB has a set of "8, UART interface ". M1505_EVB can be connected via a serial port line with PC or other devices for a serial port communication. The Demo board default support 115200 baud rate.



Figure 9 M1505 UART interface

3.4 TF Card

Such as figure 10, the M1505_EVB provides a TF interface. The "11, TF card" can support maximum capacity of 128 GB TF card.

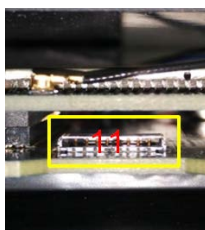


Figure 10 TF card

Note: When use less than 32 GB TF card, there is no compatibility problems. If TF cards more than 32GB have been formatted by Windows system, they should be formatted again by Android system before used. Under the Android system format of TF card, have no this problem.

3.5 Audio Interface

The audio interfaces include one headset interface, one Speaker and two MIC interfaces.

Such as figure 11“10, Headset interface”, it can support the 3.5mm earphone interface.



Figure 11 3.5mm Headset interface

When pull out earphone, the M1505_EVB default use figure 12 "2, Speaker".

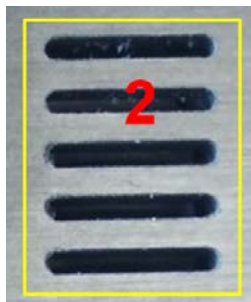


Figure 12 Speaker

The M1505_EVB supports two MIC. It is only stereo recording in recording mode.



Figure 13 MIC interface

3.6 USB Interface

Such as figure 14, the M1505_EVB has a "7, Micro USB interface" used for USB download, gripping module logs, recharging the battery and supporting OTG function.

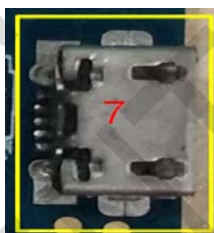


Figure 14 USB interface

3.7 Functional Test

Such as figure 15, enter the test mode: Click Settings → Choose about tablet → Consecutive click 6 times on model number.

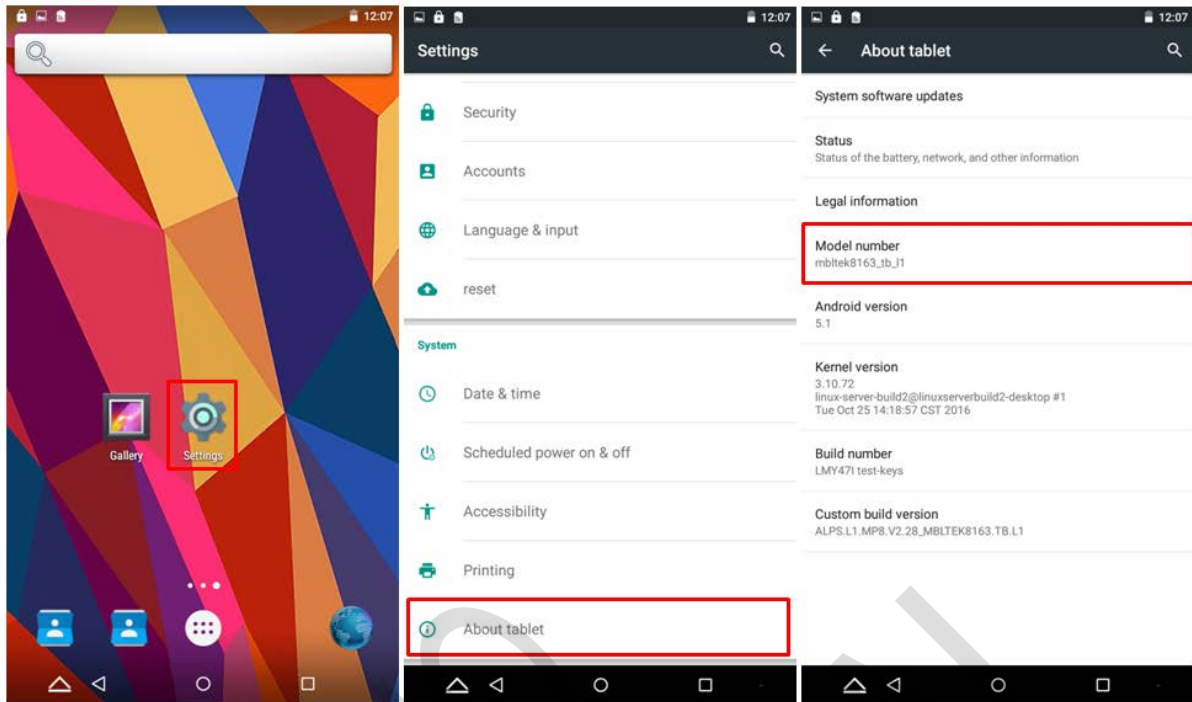


Figure 15 Enter test mode

3.7.1 Machine Test

Such as figure 16, click item at the top of the machine test, then began to test.

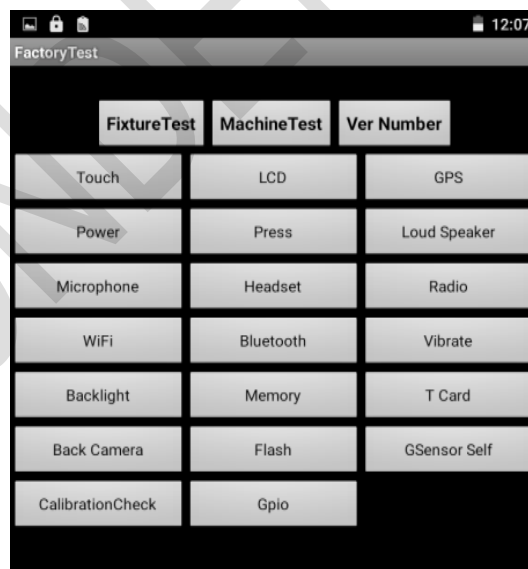


Figure 16 Test mode interface

Such as figure 17, if the test item is success, the test items displayed as blue. If the test item is failed,

the test items displayed as red.

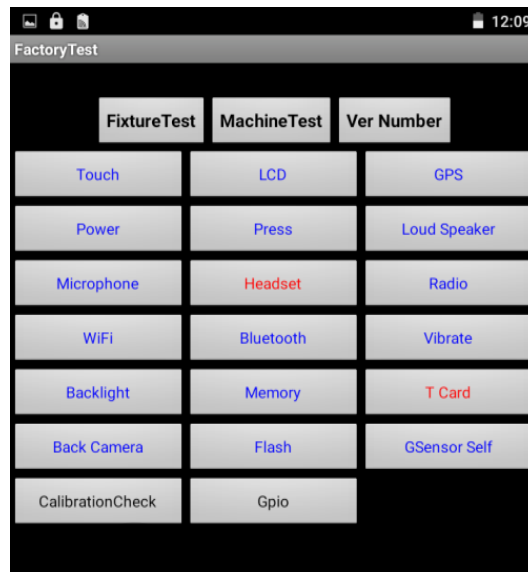


Figure 17

Such as figure 18, in the process of test, touch the prompt dialog box to choose "success" or "failed", and then enter the next test.

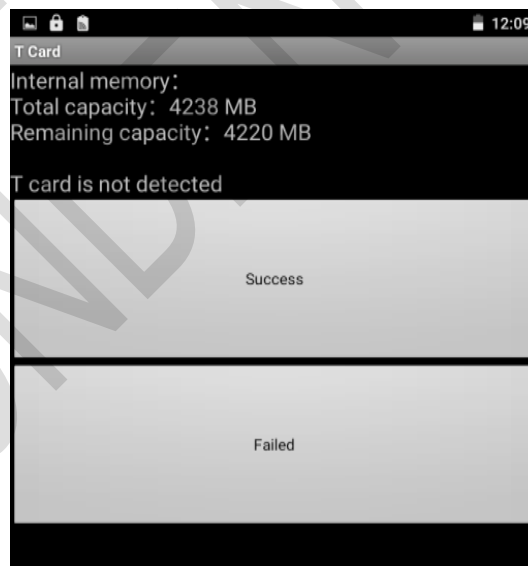


Figure 18

3.7.2 A Single Test

Choose one option in individual test. Such as figure 19, click the Success interface if TF card is normal.

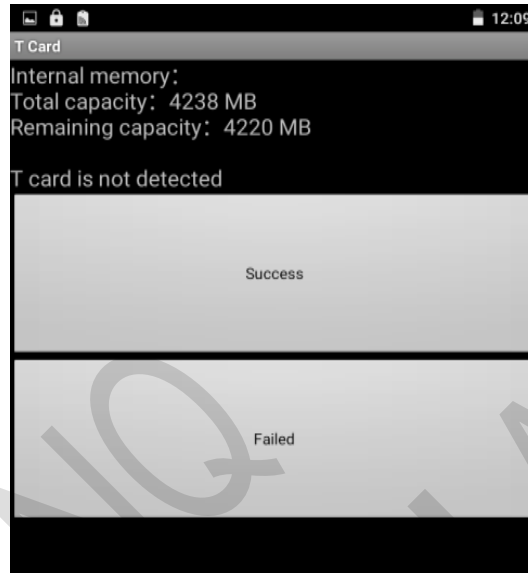


Figure 19

Such as figure 20, if the test is success, the test items displayed as blue. If the test is failed, the test items displayed as red.

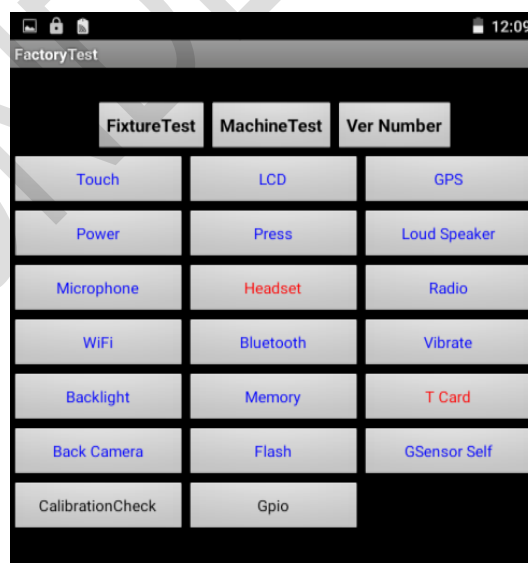


Figure 20