Test menu is from test spec file (TSM15758 Omnia Test Specification).

Use a capital letter as the commands.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Section | Name | Commands | Responses | Time(s) |
| 4.3.1 | Impedance Measurement | I | PASS/FAIL | 12S |
|  | Power On | N | PASS/FAIL | 2S |
| 4.3.2 | DC Voltage Measurement | V | PASS/FAIL | 12S |
|  | KL82 Programming **(1)** |  |  | 10S |
| 4.3.4 | Reset Switch Validation **(2)** | W | PASS/FAIL | 8S |
| 4.3.5 | Battery Installation and Verification | B | PASS/FAIL | 1S |
| 4.3.6 | U-Boot Validation and Testing | H | PASS/FAIL | 2S |
| 4.3.6.1 | EEPROM Programming **(3)** | P a=“M15758A00X”  b=“X” V=“XXXXX”  X=“XX:XX:XX:XX:XX:XX”  n =“INXXXXXXXX” | DONE | 3S |
| 4.3.6.2 | LED Testing | L | PASS/FAIL | 20S |
| 4.3.6.3. | KL82 Functional Verification | K | PASS/FAIL | 10S |
| 4.3.6.4  &4.3.6.5 | Controlled Power | O | PASS/FAIL | 2S |
| 4.3.6.6 | Current Source Verification | T | PASS/FAIL | 2S |
| 4.3.6.7 | Storage Validation | S | PASS/FAIL | 2S |
| 4.3.6.8 | Temperature Sensor Verification | M | PASS/FAIL | 2S |
| 4.3.6.9 | LCD Dismount Verification | D | PASS/FAIL | 10S |
| 4.3.6.10 | LVDS Video Out Verification **(4)** | Q | PASS/FAIL | 10S |
| 4.3.6.11 | Ethernet Switch Verification | E | PASS/FAIL | 10S |
| 4.3.7 | Linux Boot | X | PASS/FAIL | 20S |
| 4.3.7.1 | RTC Validation | R | PASS/FAIL | 3S |
| 4.3.7.2 | USB Verification | U | PASS/FAIL | 2S |
| 4.3.7.3 | Audio Verification | A | PASS/FAIL | 4S |
| 4.3.7.4 | Current Loop Interface Verification | C | PASS/FAIL | 18S |
|  | Power Off | F | DONE | 1S |
|  | Turn On Auto Power Off | Z | DONE | <1S |
|  | Turn Off Auto Power Off | Y | DONE | <1S |

(1) KL82 Programming, GUI prompt operator to programming the KL82, the screenshot as below



(2) Reset Switch Validation

After command “W”, GUI prompt operator to press the reset key of board within 8s,

1. If GUI get <DONE>, test pass;

2. If there is no response within 8s, test fail;

(3) EEPROM Programming

P[0x20]a=“M15758A00X”[0x20]b=“X”[0x20]V=“XXXXX”[0x20]X=“XX:XX:XX:XX:XX:XX”[0x20]n=“INXXXXXXXX”

a, b, V, X, n are from the dialog of GUI, or label, the details as below



(4) LVDS Video Out Verification

After command “Q”, GUI prompt operator to see the video on display then get the pass or fail,

Printf on the console will be like this:

…(boot message)

[0x10][READY]

A001

[0x10]<DONE>

[0x10][READY]

N

Power on

Current: 200mA

[0x10]<PASS>

[0x10][READY]

V

TP100: 12.111V

TP101: 5.222V

TP101: 3.333V

[0x10]<PASS>

[0x10][READY]

P[0x20]a=“M15758A00X”[0x20]b=“X”[0x20]V=“XXXXX”[0x20]X=“XX:XX:XX:XX:XX:XX”[0x20]n=“INXXXXXXXX”

[0x10]<DONE>

[0x10][READY]

W

// GUI prompt operator to press the reset key within 8s

[0x10]<DONE>

[0x10][READY]

KL82 Programming

GUI prompt operator to program.

Q

// Test LVDS video out

[0x10]<DONE>

[0x10][READY]

// GUI prompt operator to watch displays

…

…