



ochin_CM4v2 Hardware test number 12

microHDMI test

Devices used for tests

1. ochin CM4v2 carrier board
2. Raspberry Pi CM4 module with eMMC
3. Power Supply 0-30Vdc
4. microHDMI<->HDMI cable
5. HDMI monitor

Test description

the purpose of this test is to verify the proper functioning of the microHDMI, available on the ochin board. A software called FBI will be used to test the HDMI video interface.

Preliminary configuration

The purpose of the test is to display a test image on the monitor. Since the graphical GUI is not available, it is necessary to install the FBI sw, which can display an image from the terminal.

Installation of FBI:

```
Sudo apt-get update
```

```
sudo apt-get -y install fbi
```

It is also necessary to copy the test image "monoscope-1280x720.jpg" to an accessible folder. To do this, it is advisable to use an FTP client.

Test execution

To view the monoscope you need to move to the folder where you copied the file "monoscope-1280x720.jpg" and run the following command:

```
fbi -a monoscope-1280x720.jpg
```

After sending the command, the monoscope image should appear on the monitor.

Test result

Test passed