

Testing backlog

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1. Manual Test cases

1.1. Static

ID	Title	Test case description	Expected result	Result
MS1	Hardware layout	Compare hardware layout picture in the manual to the physical lab kit	Layout picture will correctly represent the physical lab kit	Expected result is met.
MS2	Link check	Check the link for the drivers in the manual	Link will be functional	Expected result is met.
MS3	Wire check	Check that the provided wires can attach to the pins on the lab kit	Wires will attach	Expected result is met.
MS4	Source code check	Check the source code to make sure code representing the CAN commands in the user manual exists	Source code will contain code for the CAN commands listed in the manual	Expected result is met.

1.2. Dynamic

1.2.1. Base

ID	Title	Test case description	Expected result	Result
MB1	Boot	Access host interface in command prompt with: Run python -m serial.tools.miniterm <com-port> 2000000 according to the manual</com-port>	Host interface will boot and state boot reason	Boots successfully, the interface says reset reason instead of boot reason
MB2	Help check	Run help command	Return value OK A summary of help commands will be printed for LED, CAN, LIN, UART, ADC, DAC and Calibration	Missing help commands in the summary for LIN and UART

1.2.2. CAN Manual Functional testing

ID	Title	Test case description	Expected result	Result
MC1	CAN help	Run can help command	Return value OK A summary of the CAN commands for rx, send, config brp, config tseg_1, config tseg_2 and config sjw will be printed	Works as expected
MC2	CAN rx	Run can rx {on off} command	Return value OK for both on and off	Works as expected
MC3.1	CAN send closed	Run can send command with 13f#02e8 while receiving side is in rx off mode	Return value OK on sending side Nothing on receiving side	Works as expected
MC3.2	CAN send open	Run can send command with 13f#02e8 while receiving side is in rx on mode	Return value OK on the sending side CAN RX 13f#02e8 on the receiving side	Works as expected

1.2.3. CAN Manual Functional Compatibility testing testing (Mac iOS)

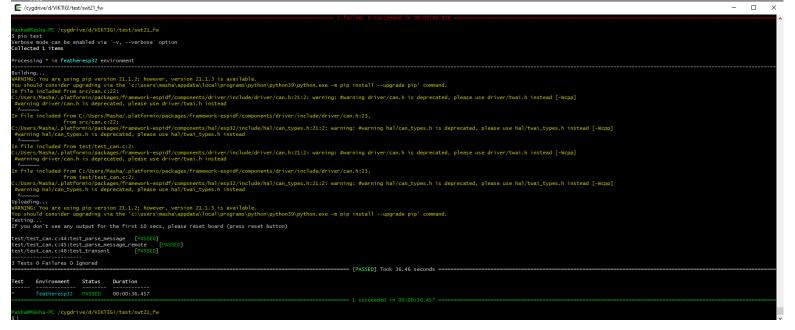
ID	Test case	Expected result	Result
MCC1	Run can help command	Return value OK A summary of the CAN commands for rx, send, config brp, config tseg_1, config tseg_2 and config sjw will be printed	Works as expected
MCC2	Run can rx {on off} command	Return value OK for both on and off	Works as expected
MCC3.1	Run can send command with 1e2#a512 while receiving side is in rx off mode	Return value OK on sending side Nothing on receiving side	Works as expected
MCC3.2	Run can send command with 1e2#a512 while receiving side is in rx on mode	Return value OK on the sending side CAN RX 1e2#a512 on the receiving side	Works as expected

1.2.4.Optional LED examples

ID	Title	Test case description	Expected result	Result
ML1	LED help	Run led help command	Return value OK A summary of the LED commands led on, led off and led blink will print	led on and led off are present, instead of led blink it prints lin blink
ML2	LED on/off	Run led {on off} command	Return value OK LED will turn on with the led on command LED will turn off with the led off command	Works as expected
ML3	LED blink	Run led blink command	Return value OK LED will blink	Works as expected

2. CAN Unit testing

ID	Test case	Expected result	Result
U01	test_parse_message	test/test_can.c:44:te st_parse_message [PASSED]	Works as expected
U02	test_parse_message_remote	test/test_can.c:45:te st_parse_message_r emote [PASSED]	Works as expected
U03	test_transmit	test/test_can.c:46:te st_transmit [PASSED]	Works as expected



3. Bug reports

3.1. MB1-B1

In test MB1, the booting sequence is successful but the interface says reset reason instead of boot reason (which is what should be shown according to the user manual). A minor issue which doesn't hinder the performance of the product but may cause some confusion for a user.

3.2. MB2-B1

In test MB2, the help commands for LIN and UART are missing in the summary of commands. These need to be added.

3.3. ML1-B1

In the test ML1, the command lin blink is listed instead of the expected command led blink, this will not work and needs to be changed.

4. Review meetings summary

28/06/2021

Meeting 1. Test plan review

Participants: Maria, Jan, Obaid, Yasir

- 1. Team decided to remove the autotest based on schedule time and scope of the project, running manual tests will be more efficient than taking time to write a program for autotests.
- 2. Execution schedule changed. The size of the team was changed and the tasks were divided among the team members.
- 3. The question was raised about the need to check the Linux environment. Are there resources to execute Compatibility testing by Linux. It is necessary to decide whether to leave this test environment in the test plan./
- 4. Removed can config from commands to be tested as it is actually a parent for several underlying commands which would take longer than expected to test.
- 5. Added summary of meetings to backlog.

29/06/2021

Meeting 2. Progress meeting

Participants: Maria, Jan, Obaid, Devrim

- 1. Updated time schedule.
- 2. Setup of Jira with Kanban board.
- 3. Presentation of manual test case examples.
- 4. Updated summary of meetings.

01/07/2021

Meeting 3. Progress meeting

Participants: Maria, Jan

- 1. Presentation of manual test execution results.
- 2. Presentation of unit test execution results.
- 3. Preparation of final test result report. Setting up a template for the report format.
- 4. Updated to the Kanban board for new assigned issues.

5. Updated summary of meetings.

02/07/2021

Meeting 4. Finalizing test report

Participants: Maria, Jan

- 1. Approving and discussing results.
- 2. Updating backlog.
- 3. Final checks of test plan, git repository, test specification of unit tests and backlog.
- 4. Finished report.

5. Jira schedule board

