



Self-test Procedure for the FlashPro Programmer Using the Diagnostic Tool

Version 1.0

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Self-test Procedure for the FlashPro Programmer

The FlashPro programmer hardware includes a self-test function which tests internal connections and target cable integrity. This document gives instructions on how to run the self-test.

To run self-test:

1. Connect the loopback test board to the FlashPro programmer.
2. Connect the FlashPro via your PC's parallel port or USB port.
3. Turn on the FlashPro programmer.
4. Start the FlashPro Diagnostic software, **Start>Programs>FlashPro V4.0>Diagnostic**.
5. Connect to the FlashPro programmer by entering:

```
openport lpt<port number>
```

Note: If your FlashPro programmer is attached using USB instead of a parallel port, you must enter:

```
openport usb
```

The port number represents the parallel port you used to connect to the FlashPro programmer. If the FlashPro is connected to port 1, enter:

```
openport lpt1
```

If this fails, check your licensing dongles and make sure the FlashPro's power is turned on.

6. Enter:

```
test
```

The unit enters the self-test mode, which lasts less than one minute. Do not interrupt the unit until the self-test mode is completed. If self-test fails, you may see the following error messages:

- Failed self-test. VDDP setting: Expected 2300...27000. Actual 750.
- Loopback failure TDI->TDO. Expected 1, Actual 0.
- Parallel port device does not support IEEE-1284 negotiation protocol.

Please refer to the Troubleshooting section of the [FlashPro v4.0 User's Guide](#) for help with error messages. If you are not successful, please contact technical support at tech@actel.com for assistance.

7. Close port.
8. Exit.



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