



Q. uick Start Guide: Description of the LED Codes on a Q. bloxx Module



The Q.bloxx module has 3 LEDs (1 blue and 2 red). Depending on the failure state of the module, the behavior of the flashing LEDs can be differentiated.

1. 2 LEDs are flashing approximately 20 Hz. The 3rd LED is flashing within 1 second; displays the error code number.

- APP Failure: Blue and Red1 fast, Red2 shows the error code:
 - o 1: wrong module type in the calibration file
 - o 2: wrong FPGA version number
 - o 3: dip switch failure (timeout)
 - o 4: socket EE failure (timeout)
- OS Failure: Blue and Red2 fast, Red1 shows the error code:
 - o 1: wrong module type in the calibration file
 - o 2: wrong FPGA version number (not supported)
 - o 3: application software is missing
 - o 4: FPGA software not available

2. Module is running in the OS software.

- OS failure code from above → application is missing
- This is also shown while the application is downloaded

3. All 3 x LEDs flash together: Morse code SOS

- Module types detected in the socket and in the module configuration file are not the same. This stops when the next configuration is downloaded.
- ***-----*** **-----*** **-----***



4. Running LEDs

- During a FPGA or OS download, the module changes into configuration mode and a restart is needed to get into normal measure mode again.
 - o Blue → Red1 → Red2 → Blue → Red1 → Red2 → Blue → Red1 → Red2
- Active when a download of FPGA or APP is initiated in the OS. Should never be active when the system is running at the customer.
 - o Red2 → Red1 → Blue → Red2 → Red1 → Blue → Red2 → Red1 → Blue

5. Only Blue LED

- Configuration mode timeout → DSP communication lost
 - o * * * * *
- Data exchange mode timeout → FPGA communication lost
 - o * * * * *
- Continuously blue, no flashing → no communication timeout, normal operation in the application software

6. Only Red (error) LEDs

- Analog modules: Range error is active at the connector in front of the LED (can be enabled or disabled).

7. Only Orange (digital I/Os) LEDs

- Digital modules: The LED behind the digital input or output shows that it is active.

Contact us today if you have any further questions!