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Programmable Oscillator Software 2.0 versus 3.x.x and EVB Comparison

The Programmable Oscillator Software configures the Si514, Si570/1, and Si598/9, which are programmable XOs and VCXOs using I2C. This article describes the 2.0 and (specifically) 3.0 versions of the software and which evaluation board (EVB) platform each version supports. Any version greater than 3.0 will use the new EVB and driver platform described in the following sections.

Please note that it is not necessary to upgrade to the 3.x.x version of software (which would include an upgrade to the EVB and driver as described below), unless the Si514 device is needed or if the new EVB is needed. However new features may be introduced for the Si570/71 and Si598/99.

If you have further questions, contact Silicon Laboratories:

<http://www.silabs.com/support/pages/contacttechnicalsupport.aspx>

Programmable Oscillator Software Version 2.0 Details

- Release Date: May 17, 2010
- Uses the old platform, a motherboard and daughterboard configuration, called Si5XX Programmable Oscillator
- Uses the USB driver: USBxpress 1.x
- Controls Si570, Si571, Si598, Si599
- Windows 7 64-bit is not supported
- MCU firmware version: 0.07

Programmable Oscillator Software Version 3.0 Details

- Release Date: March 4, 2011
- First release to use the new platform: a single EVB called Si5xx-5x7-EVB
- Uses USB driver: USBXpress 3.1
- Controls Si514, Si570, Si571, Si598, Si599
- Windows 7 64-bit as well as the other Window versions are supported
- MCU firmware version: 0.20

Change List between Version 2.0 and Version 3.0

- Added Si514
- Added feature to allow changing divider combination in the Calculator
- Added Register Viewer
- Added Register Programmer for all devices
- Upgraded the driver to USBXpress 3.1
- Support Si5xx-PROG-EVB (universal I2C oscillator EVB)
- Removed speed grading restrictions
- Expanded Si598 output frequency

What is required for an upgrade from 2.0 to 3.x.x?

The MCU firmware on the Si5XX Programmable Oscillator EVB is not compatible with version 3.0 and greater of software and new driver. The new EVB must be obtained to work with the new software. Otherwise, the 2.0 version of software must be used. Contact your Silicon labs sales representative to order a new EVB:

<http://www.silabs.com/buysample/pages/salesreps.aspx>

A new driver will need to be installed when using for version 3.0 and greater of software and the new EVB. This driver comes with the software. You should only need to do this once per computer per upgrade.

The release notes for the Programmable Oscillator Software are available here:

http://www.silabs.com/Support%20Documents/Software/release_notes_prog_osc.txt