



LatticeMico System Software Release Notes for Lattice Diamond 3.1

The LatticeMico System Software includes changes to the Lattice Mico System Builder (MSB) and Software Project Environment (C/C++ SPE) for Lattice Diamond® version 3.1.

What's New in LatticeMico System

The following updates are in this version of LatticeMico System software:

- ▶ SDRAM controller (v3.8) component now supports the MachoXO2 device family. Users can configure SDRAM controller using LatticeMico software on the platform.
- ▶ SPI Flash (v3.5), GPIO (v3.5), Fault Logger (v1.1), and EFB (v1.5) components had bug fixes and other updates, as described in their respective data sheets.
- ▶ Programmer cables have been renamed, and this name change has been reflected in the LatticeMico software, as well as in Diamond Programmer software. The name changes are as follows:

Previous Cable Name	New Cable Name
USB	HW-USBN-2A
USB2	HW-USBN-2B (FTDI)
Lattice	HW-DLN-3C (Parallel)

This change is reflected in the software GUI and throughout the software documentation.

- ▶ An additional LatticeMico32 Optimization option: **Optimization Level s(-0s)**, has been added to LatticeMico32 SPE.

Release Compatibility

LatticeMico System Builder platforms developed prior to the release of Lattice Diamond 1.1 (or ispLEVER 8.1 SP1) may need to be analyzed and subsequently updated. Users who open a platform containing one of the components listed below, at the version shown or older, will be given the option to update the platform:

SPI Flash v3.5	SDRAM controller v3.8
DMA v3.1	GPIO v3.4
UART v3.4	Fault Logger v1.0
GPIO v3.1	EFB v1.4

Users who choose to update a platform with a newer version of these components may need to make modifications to their C/C++ source code. It may also be necessary to update any RTL source code instantiating the LatticeMico System Software generated platform.

To get an understanding of how the newer version of these components affects the C/C++ and RTL code please read [LatticeMico32 Technical Note 1221](#). It has a complete description of the changes made, the situations where there will be an impact your existing design, and instructions on how to update your design if it is required.

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