LatticeMico System Software Release Notes for Lattice Diamond 3.3

The LatticeMico System Software includes changes to the Lattice Mico System Builder (MSB) and Software Project Environment (C/C++ SPE) for Lattice Diamond® version 3.3.

What's New in LatticeMico System

A new component, LatticeMico PMBus Adapter (V1.0), has been added. The LatticeMico PMBus Adapter provides major functions of PMBus protocol 1.1 for PMbus master to configure and monitor Analog Sense and Control (ASC) registers for Lattice Platform Manager 2 devices. The LatticeMico PMBus adapter also provide the SMBAltert for fault detection and the host can monitor the fault status through status commands. The LatticeMico PMBus master can control the operation of system such as system on or off, margin up or down and interleave on or off.

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 TN1221 - *LatticeMico32 Migration Concerns Post ispLEVER 8.1 and Diamond 1.0*. 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.