I2C Target IP

IP Version: v2.5.0

Release Notes

FPGA-RN-02028-1.2

December 2025

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Contents

1. Introduction

This document contains the Release Notes for the I2C Target IP. For specific details about the IP, refer to the following:

- I2C Target IP User Guide (FPGA-IPUG-02072)

I2C Target IP v2.5.0

Software	Software Version	Summary of Changes
Lattice Radiant Lattice Propel Builder	2025.2	Added support for MachXO4 devices.

Corrections to Previous Release Notes

- All IP versions listed below are supported by the Lattice Propel Builder software.

I2C Target IP v2.4.0

Software	Software Version	Summary of Changes
Lattice Radiant	2025.1	Fixed the Receive Address Interrupt assertion.

I2C Target IP v2.3.0

Software	Software Version	Summary of Changes
Lattice Radiant	2024.2	• Added support for Lattice Certus-N2 devices. • Added the LFD2NX-9 and LFD2NX-28 devices to supported devices. • Added STOP Condition Detected Interrupt Assertion attribute.

I2C Target IP Earlier Versions

IP Version	Summary of Changes
2.1.1	Updated the driver file version.
2.1.0	• Added the I2C SDA Register Depth attribute. • Updated the driver for register mapping and I2C Rx FIFO read.
2.0.0	Updated the terminologies to use *controller* and *target*.
1.4.1	Added the version number, improved code comments, and replaced arbitrary return values in the driver files.
1.4.0	Added support for Lattice Avant devices.
1.3.0	Modified *metadata.xml* to change the minimum value of *Tx/Rx_FIFO_Almost_Full/Empty_Flag* to 1.
1.2.0	Added support for MachXO5-NX devices.
1.1.0	Added support for CertusPro-NX devices.
1.0.3	• Reduced the read latency from 2 clock cycle to 1 clock cycle. • Added support for Certus-NX devices.
1.0.2	Updated the IP for Radiant 2.0 Service Pack 1.
1.0.1	Initial release.
1.0.0	Preliminary release.

References

- I2C Target IP User Guide (FPGA-IPUG-02072)
- Avant-E web page
- Avant-G web page
- Avant-X web page
- Certus-N2 web page
- Certus-NX web page
- CertusPro-NX web page
- CrossLink-NX web page
- MachXO4 web page
- MachXO5-NX web page
- I2C Target IP Core web page
- Lattice Propel Design Environment web page
- Lattice Radiant Software web page
- Lattice Solutions IP Cores web page
- Lattice Solutions Reference Designs web page
- Lattice Insights web page for Lattice Semiconductor training courses and learning plans

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