

FIFO Memory Modules

Release Notes

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Introduction

This document contains the Release Notes for the FIFO and FIFO_DC Memory Modules IPs. For specific details about the IPs, refer to the following:

FIFO Memory Modules User Guide (FPGA-IPUG-02182)

Non-MachXO4 Devices 2.

2.1. **FIFO IP**

FIFO IP V2.50

| Software | Software Version | Summary of Changes |
|------------------|------------------|---|
| Lattice Radiant™ | 2024.2 | Fixed inconsistent reset behavior of registered data output for LUT-based FIFO Controller |

FIFO IP Earlier Version

| IP Version | Summary of Changes |
|------------|---|
| 2.4.0 | Updated fix for FWFT behavior |
| 2.3.0 | Fix PMI support |
| 2.2.0 | Fixed FWFT behavior |
| 2.1.0 | Added FWFT Support for Nexus and Avant devices. |
| 2.0.0 | Added LAV-AT support. |
| 1.4.0 | Fixed almost empty flag for HW Controller Implementation. |
| 1.3.0 | Added UT24C and UT24CP support. |
| 1.2.0 | Added LFMXO5 support and Propel 2.1 Software support. |
| 1.1.0 | Added LFCPNX support and Hard FIFO flag sync. |
| 1.0.2 | Updated testbench. |
| 1.0.1 | Added LFD2NX support and Hard FIFO Controller support. |
| 1.0.0 | Initial release. |



2.2. FIFO_DC IP

FIFO_DC IP v2.7.0

| Software | Software Version | Summary of Changes |
|-----------------|------------------|--|
| Lattice Radiant | 2025.2 | Disable Hard IP Implementation for LAV-AT-E30B |

FIFO_DC IP Earlier Versions

| IP Version | Summary of Changes |
|------------|--|
| 2.6.0 | Disable Hard IP Implementation for LAV-AT-E70B |
| 2.5.0 | Fixed mixed-width configurations |
| 2.4.0 | Various fixes and performance improvements |
| 2.3.0 | Fixed asynchronous reset of FIFO flags for LUT-based Controller Implementation |
| 2.2.0 | Fixed FWFT behavior |
| 2.1.0 | Added FWFT support for Nexus and Avant devices. |
| 2.0.0 | Added LAV-AT support. |
| 1.4.0 | Fixed almost empty flag for HW Controller Implementation. |
| 1.3.0 | Added UT24C and UT24CP support. |
| 1.2.0 | Added LFMXO5 support and Propel 2.1 Software support. |
| 1.1.0 | Added LFCPNX support and Hard FIFO flag sync. |
| 1.0.2 | Updated testbench. |
| 1.0.1 | Added LFD2NX support and Hard FIFO Controller support. |
| 1.0.0 | Initial release. |



3. MachXO4 Devices

3.1. FIFO_DC IP

FIFO DC IP v3.0.0

| Software | Software Version | Summary of Changes |
|-----------------|------------------|-----------------------------------|
| Lattice Radiant | 2025.2 | Added support for MachXO4 device. |



References

- FIFO Memory Modules User Guide (FPGA-IPUG-02182)
- Certus-N2 web page
- Certus-NX web page
- CertusPro-NX web page
- CrossLink-NX web page
- IP Core web page
- iCE40 UltraPlus web page
- Lattice Avant Platform web page
- Lattice Insights for Lattice Semiconductor training courses and learning plans
- Lattice Propel Design Environment web page
- Lattice Radiant Software web page
- Lattice Solutions IP Cores web page
- Lattice Solutions Reference Designs web page
- MachXO4 web page
- MachXO5-NX web page



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