



# **MachXO4 EFB Module IP**

IP Version: v1.2.0

## **Release Notes**

FPGA-RN-02079-1.0

December 2025

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# 1. Introduction

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

- [MachXO4 EFB Module IP \(FPGA-IPUG-02287\)](#)

## EFB Module IP v1.2.0

Software	Software Version	Summary of Changes
Lattice Radiant	2025.2	Updated the SPI controller clock pre-scaling limitation.

## EFB Module IP v1.1.0

Software	Software Version	Summary of Changes
Lattice Radiant	2025.1.1	Added support for the following EFB features: <ul style="list-style-type: none"><li>• SPI core</li><li>• Timer/Counter</li><li>• PLL dynamic access</li><li>• APB interface for bridging to the WISHBONE user interface</li></ul>

## EFB Module IP v1.0.0

Software	Software Version	Summary of Changes
Lattice Radiant	2025.1	Initial release.

## References

- [MachXO4 EFB Module IP \(FPGA-IPUG-02287\)](#)
- [MachXO4](#) 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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Submit a technical support case through [www.latticesemi.com/techsupport](http://www.latticesemi.com/techsupport).

For frequently asked questions, refer to the Lattice Answer Database at [www.latticesemi.com/Support/AnswerDatabase](http://www.latticesemi.com/Support/AnswerDatabase).



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