IGLOO2 M2GL150 Device, Errata

v1.0 November 2014

This Errata sheet contains information about known Errata specific to the IGLOO®2 M2GL150 device family and provides available fixes and solutions.

Table of Contents

Table 1: **Revision History**

Date	Version	Changes
November 2014	1.0	First Revision
Note: *Microsemi has separate Errata documents for the M2GL090 and M2GL150 devices.*		

Table 2: **Revisions Released per Device**

Silicon Device	Revision	Device Status
M2GL150	Commercial/Industrial	Production

Errata for IGLOO2 M2GL150 Devices

Table 3 lists the specific device Errata and the affected IGLOO2 M2GL150 devices.

Table 3: **Summary of IGLOO2 M2GL150 Device Errata**

No.	Errata	Affected Devices/ Software/ Revisions	Fixed in Device/Software/ Revisions
1.	ECC Point-Multiplication Service and ECC Point-Addition System Service are not supported	M2GL150	Updated information will be available in a future version of the Errata.
2.	Programming Recovery/Auto-update is not supported	M2GL150	Updated information will be available in a future version of the Errata.
3.	Programming of the FPGA fabric can occur only at room temperature	M2GL150	Updated information will be available in a future version of the Errata.
4.	Programming of the eNVM blocks needs to occur independently of the fabric	M2GL150	Updated information will be available in a future version of the Errata.
5.	Updating eNVM from the FPGA fabric requires changes of the NV_FREQRNG register	M2GL150	Updated information will be available in a future version of the Errata.
6.	SYSCTRL_RESET_STATUS macro is not supported	M2GL150	The future production version of Errata will have updated information.
7.	Zeroization is not supported at this time	M2GL150	Updated information will be available in a future version of the Errata.
8.	Power up digest is not supported	M2GL150	Updated information will be available in a future version of the Errata.

Errata Descriptions and Solutions

1. ECC Point-Multiplication Service and ECC Point-Addition System Service are not supported

Updated information will be available in a future version of the Errata.

2. Programming Recovery/Auto-update is not supported

Updated information will be available in a future version of the Errata.

3. Programming of the FPGA fabric can occur only at room temperature

Updated information will be available in a future version of the Errata.

4. Programming of the eNVM blocks needs to occur independently of the fabric

Updated information will be available in a future version of the Errata.

5. Updating eNVM from the FPGA fabric requires changes of the NV_FREQRNG register

When updating the eNVM from the FPGA fabric, NV_FREQRNG register must be changed from the default value 0x07 to 0x0F; eNVM reads are not affected. Updated information will be available in a future version of the Errata.

6. SYSCTRL_RESET_STATUS macro is not supported

Updated information will be available in a future version of the Errata.

7. Zeroization is not supported at this time

Updated information will be available in a future version of the Errata.

8. Power up digest is not supported

Updated information will be available in a future version of the Errata.

Usage Guidelines for IGLOO2 M2GL150 Devices

1. Programming support

Note that there can be package dependencies that do not expose certain programming interfaces. Refer to the product briefs for device/package specific features.

Table 4: **Device Programming Support**

Programming Mode	JTAG	SPI Slave	Auto Programming	Auto Update	2 Step IAP	Programming Recovery
Programming Interface	JTAG	SPI_SC	SPI_0	SPI_0	SPI_0	SPI_0
M2GL150 (T),(TS)	Yes	Yes	No	No	No	No

Product Support

Microsemi SoC Products Group backs its products with various support services, including Customer Service, Customer Technical Support Center, a website, electronic mail, and worldwide sales offices. This appendix contains information about contacting Microsemi SoC Products Group and using these support services.

Customer Service

Contact Customer Service for non-technical product support, such as product pricing, product upgrades, update information, order status, and authorization.

From North America, call **800.262.1060**
From the rest of the world, call **650.318.4460**
Fax, from anywhere in the world **650.318.8044**

Customer Technical Support Center

Microsemi SoC Products Group staffs its Customer Technical Support Center with highly skilled engineers who can help answer your hardware, software, and design questions about Microsemi SoC Products. The Customer Technical Support Center spends a great deal of time creating application notes, answers to common design cycle questions, documentation of known Erratas and various FAQs. So, before you contact us, please visit our online resources. It is very likely we have already answered your questions.

Technical Support

Visit the Microsemi SoC Products Group Customer Support website for more information and support (*http://www.microsemi.com/soc/support/search/default.aspx*). Many answers available on the searchable web resource include diagrams, illustrations, and links to other resources on website.

Website

You can browse a variety of technical and non-technical information on the Microsemi SoC Products Group home page, at *http://www.microsemi.com/soc/*.

Contacting the Customer Technical Support Center

Highly skilled engineers staff the Technical Support Center. The Technical Support Center can be contacted by email or through the Microsemi SoC Products Group website.

Email

You can communicate your technical questions to our email address and receive answers back by email, fax, or phone. Also, if you have design problems, you can email your design files to receive assistance. We constantly monitor the email account throughout the day. When sending your request to us, please be sure to include your full name, company name, and your contact information for efficient processing of your request.

The technical support email address is *soc_tech@microsemi.com*.

My Cases

Microsemi SoC Products Group customers may submit and track technical cases online by going to *My Cases.*

Outside the U.S.

Customers needing assistance outside the US time zones can either contact technical support via email (*soc_tech@microsemi.com*) or contact a local sales office. Sales office listings can be found at *www.microsemi.com/soc/company/contact/default.aspx*.

ITAR Technical Support

For technical support on RH and RT FPGAs that are regulated by International Traffic in Arms Regulations (ITAR), contact us via *soc_tech_itar@microsemi.com*. Alternatively, within *My Cases* select **Yes** in the ITAR drop-down list. For a complete list of ITAR-regulated Microsemi FPGAs, visit the *ITAR webpage*.

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