Network FMC Errata

V1.0

13 February 2020

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1 Introduction

Thank you for your interest in the Avnet Network FMC. Although Avnet has made every effort to ensure the highest possible quality, these kits and associated software are subject to the limitations described in this errata notification.

Be aware that any of the optional workarounds requiring physical modifications to the board are done at the User's own risk, and Avnet is not liable for poorly performed rework.

2 Identifying Affected Modules

The modules affected by these errata can be identified by the Date Code located on the sticker. Any board built after 2001 (YYWW) will have this change corrected.
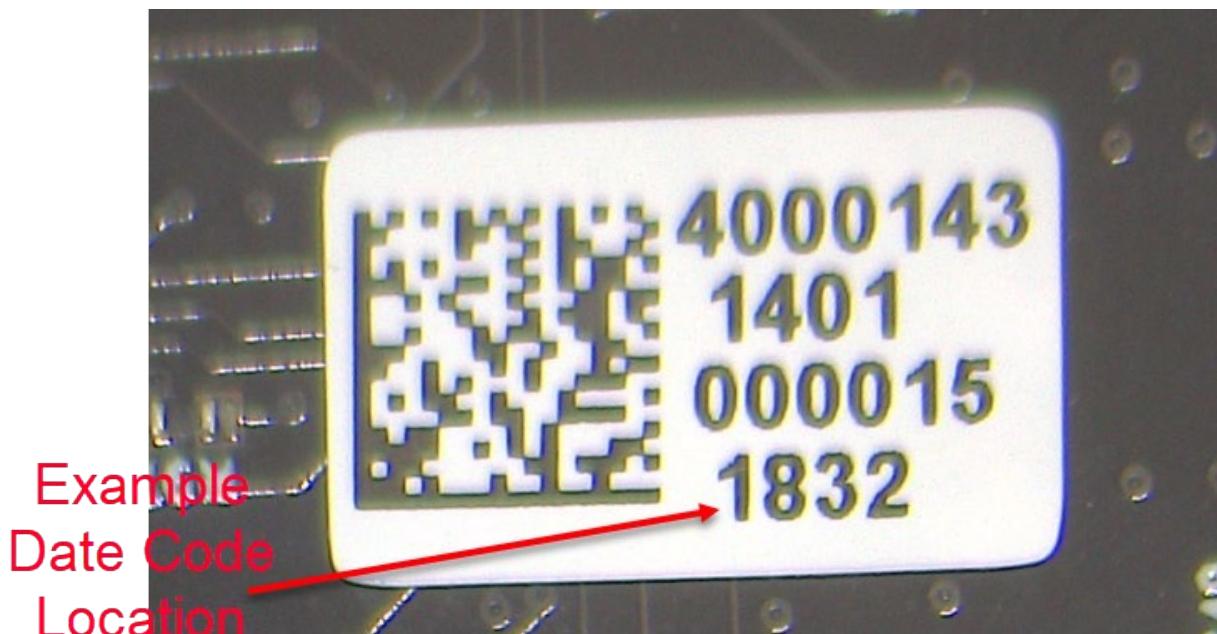
Figure 1 – Identifying Network FMC for this Errata

3 Errata

3.1 Base current Ib is pulling POR# down on Zynq 7000 boards

3.1.1 Applications Affected

This issue will affect any Network FMC used in conjunction with a Zynq 7000 baseboard

3.1.2 Description

Base current Ib is pulling the POR# on Zynq 7000 boards down and keeping the SOC from coming up. On Network FMC + ZedBoard. Zedboard pullup current on this is 3,3uA, the Network FMC sinks >1mA of base current, which pulls POR# below threshold, keeping the SOC in reset.
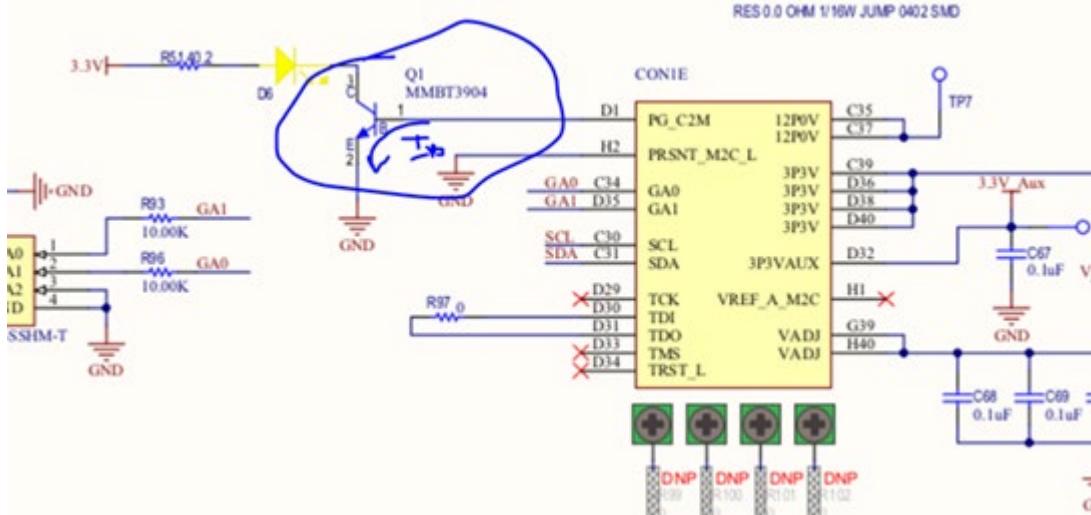
Figure 2 – Issue Identified

3.1.3 Workaround/Solution
No warranty is offered if you wish to try this work around yourself.

To perform the rework yourself, perform the following steps:

1. Remove the Transistor Q1.

2. Optional – Remove Led D6
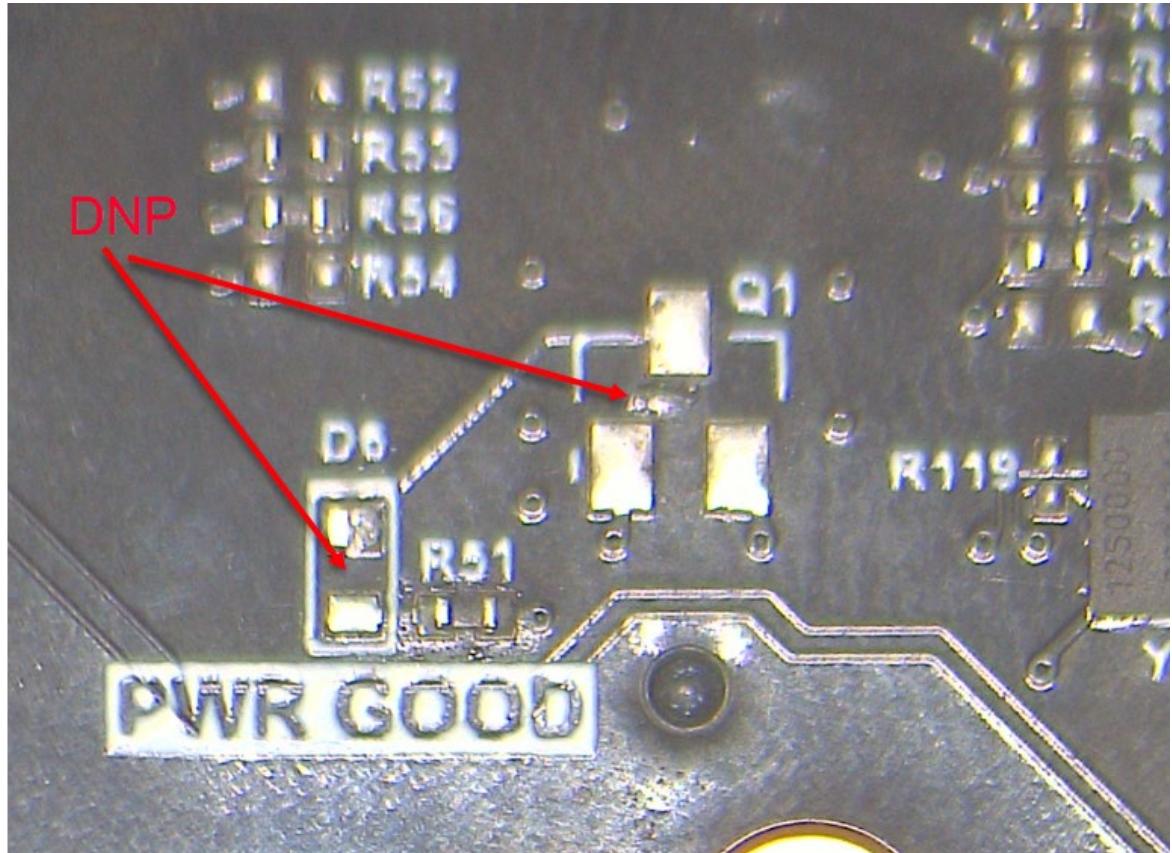
Figure 3 – D6 and Q1 DNP Location

3. Please note, PWR_GOOD Led will no longer work, but the board will now be compatible with Zynq 7000 baseboard.

4 New Eratum

Any new erratum found will be posted to the Avnet website forum:
http://avnet.me/buy-fmc-netw1

5 Additional Support

For additional support, please review the discussions and post your questions to the Zedboard Forums at:
https://www.element14.com/community/community/designcenter/zedboardcommunity/zedboard-forums

You can also contact your local Avnet FAE.

6 Revision History

Date	Version	Revision
13 Feb 2020	1.0	Added Base current Ib is pulling POR# down on Zynq 7000 boards