

A large satellite dish antenna is positioned in a field of tall, dry grass. The dish is white and mounted on a metal structure. The background shows a clear blue sky with a few wispy clouds, and the sun is setting on the horizon, casting a warm glow over the scene. The overall atmosphere is serene and open.

Avnet UltraZed-EV Carrier Card

Revision 1 Errata

03 February 2020

© 2020 Avnet. All rights reserved. All trademarks and registered trademarks are the property of their respective owners. All specifications are subject to change without notice.

NOTICE OF DISCLAIMER: Avnet is providing this design, code, or information "as is." By providing the design, code, or information as one possible implementation of this feature, application, or standard, Avnet makes no representation that this implementation is free from any claims of infringement. You are responsible for obtaining any rights you may require for your implementation. Avnet expressly disclaims any warranty whatsoever with respect to the adequacy of the implementation, including but not limited to any warranties or representations that this implementation is free from claims of infringement and any implied warranties of merchantability or fitness for a particular purpose.

Table of Contents

1	Introduction	3
2	Identifying Affected Modules	3
3	Errata	4
3.1	FMC Connector has incorrect clock placement	4
3.1.1	Applications Affected	4
3.1.2	Description	4
3.1.3	Workaround	4
3.1.4	Identifying Repaired or New Boards	4
4	New Erratum	5
5	Additional Support	5
6	Revision History	5

1 Introduction

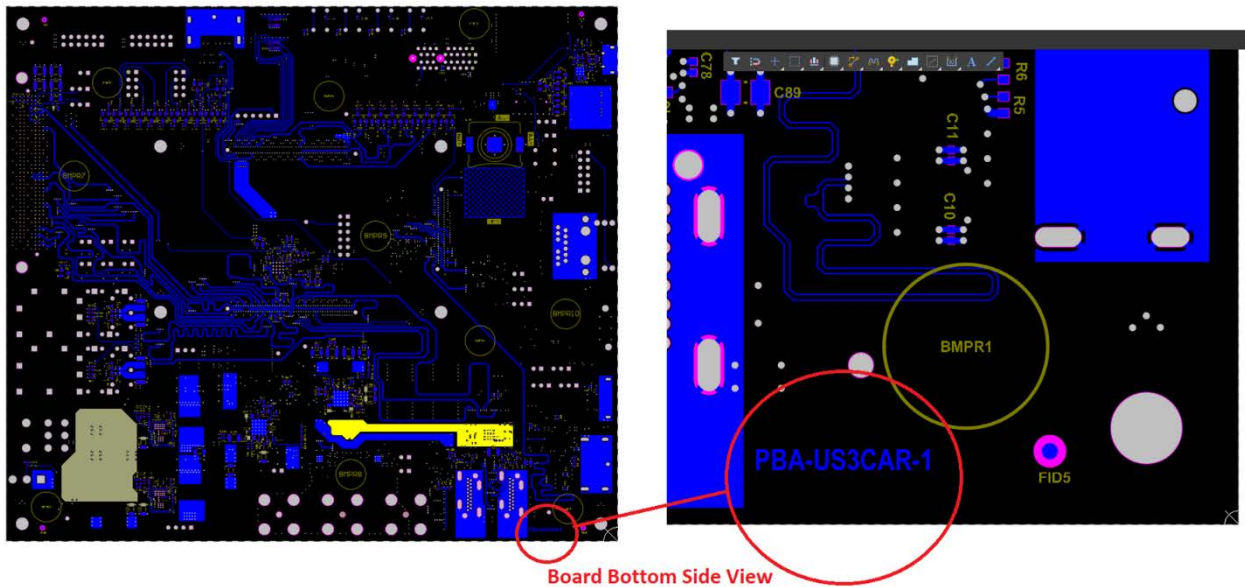
Thank you for your interest in the Avnet UltraZed-EV Carrier Card. Although Avnet has made every effort to ensure the highest possible quality, these kits and associated software are subject to the limitations described in this errata notification.

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 carriers affected by this errata can be identified by the PCB Name of the UltraZed-EV Carrier Card. The PCB Name of the UltraZed-EV Carrier Card is written in copper and can be found on the bottom side of the board near the edge on the backside to the RIGHT of the HDMI connectors along the same edge. This assumes you are looking at the BACK of the carrier card with the 3G-SDI connectors facing the direction depicted in the below figure.

The current production revision is "1-01-03". Any boards that are at this revision or earlier are affected. Any board with a "1" at the end of the string (PBA-US3CAR-1) is an affected board.



3 Errata

3.1 FMC Connector has incorrect clock placement

3.1.1 Applications Affected

Any FMC card that was designed to the Vita 57.1 2010 standard which requires the use of a clock on signals on pins G2/G3. These designated pins are used by some FMC cards for CLK1_M2C_P/N.

3.1.2 Description

The FMC connector, JX4x component has net names labeled and routing that is not consistent with the Vita spec. and therefore are not Vita spec. compliant. The following pins are affected and will be changed on a new revision of the board.

- JX4B1, JX4B40
- JX4E37
- JX4G2, JX4G3
- JX4J2, JX4J3
- JX4K4, JX4K5

This leads to the following signals to not be connected, or to be connected to different locations in the FPGA pinout, or have erroneous circuitry associated with it. This can be seen by examining the Schematic Print PRJ-US3CAR-1-01-02 on page 9 and comparing against a known Vita57.1 specification.

Signals marked in RED are incorrect.

	K	J	H	G	F	E	D	C	B	A
1	VREF_B_M2C	GND	VREF_A_M2C	GND	PG_M2C	GND	PG_C2M	GND	RES1	GND
2	GND	CLK1_C2M_P	PRSNT_M2C_L	CLK0_C2M_P	GND	HA01_P_CC	GND	DP0_C2M_P	GND	DP1_M2C_P
3	GND	CLK1_C2M_N	GND	CLK0_C2M_N	GND	HA01_N_CC	GND	DP0_C2M_N	GND	DP1_M2C_N
4	CLK1_M2C_P	GND	CLK0_M2C_P	GND	HA00_P_CC	GND	GBTCLK0_M2C_P	GND	DP9_M2C_P	GND
5	CLK1_M2C_N	GND	CLK0_M2C_N	GND	HA00_N_CC	GND	GBTCLK0_M2C_N	GND	DP9_M2C_N	GND
37	HB17_P_CC	HB18_N	LA32_P	LA33_N	HB20_P		GND	12P0V	DP6_C2M_N	GND
38	HB17_N_CC	GND	LA32_N	GND	HB20_N	GND	3P3V	GND	GND	DP5_C2M_P
39	GND	VIO_B_M2C	GND	VADJ	GND	VADJ	GND	3P3V	GND	DP5_C2M_N
40	VIO_B_M2C	GND	VADJ	GND	VADJ	GND	3P3V	GND	GND	GND

3.1.3 Workaround

As we cannot account for every FMC compatible or FMC certified board, a customer should first determine if the signalling cannot be worked around with a customized circuit design, that is a COTS FMC card is being used, the customer should contact their local Field Applications Engineer (FAE) or sales team for help rectifying the issue.

3.1.4 Identifying Repaired or New Boards

The earliest next revision of this board will be "2-01-00". Using the same identifying techniques listed above in "Identifying Affected Modules," any board that begins with "2" or greater will have the PCB copper correction. These boards will be easily identified by the metal on the bottom side of the PCB that reads "PBA-US3CAR-2"

4 New Erratum

Any new erratum found will be posted to the UltraZed-EV Carrier Card product page, under the Technical Documents tab:

http://avnet.me/UZEVEVCC_E14

5 Additional Support

For additional support, please review the discussions and post your questions in the UltraZed-EV Forum:

<http://avnet.me/uzevforum>

You may also contact your local Avnet FAE.

6 Revision History

Date	Version	Revision
03 Feb 2020	1.0	Added Items 3.1