

March 24, 2020

End of Life Notification EOL20002

AES-LPA-QRF1800-G

Products Affected: This notification affects the part number listed below.

AES-LPA-QRF1800-G - Qorvo 2x2 Small Cell RF Front-end 1.8 GHz Card

AES-ZU-RFSOC-SK-G – RFSOC Starter Kit

Effective Date: March 24, 2020

Reason for Change: The Avnet Qorvo 2x2 Small Cell RF Front-end 1.8 GHz Card (AES-LPA-QRF1800-G) precludes the ability to perform a commonly requested loopback test between Channel 1 and Channel 2. Therefore, this version of the card will be discontinued and replaced by a variant that allows loopback testing between channels. The new variant uses the same PCB and slightly different Bill-of-Materials.

Recommended Replacement:

The replacement part number will be **AES-LPA-QRF1800-RVS-G**. This new variant will modify the Channel 2 duplexer and filters to allow cabled or over-the-air loopback between Channel 1 and Channel 2.

AES-ZU-RFSOC-SK-G includes the discontinued **AES-LPA-QRF1800-G**, and is therefore also discontinued. The replacement for the **AES-ZU-RFSOC-SK-G** is the **AES-ZU-RFSOC-SK-RVS-G** which includes the same Xilinx ZCU111 Development kit and the new **AES-LPA-QRF1800-RVS-G** RF front end board.

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Details:

The Avnet Qorvo 2x2 Small Cell RF Front-end 1.8 GHz Card (AES-LPA-QRF1800-G) is a two channel Frequency Division Duplex (FDD) RF front end operating in LTE Band 3 - enabling simultaneous transmit (downlink) at 1842.5 MHz and receive (uplink) at 1747.5 MHz. This configuration will no longer be produced, but will be replaced by a configuration with Channel 2 transmit at 1747.5 MHz and receive at 1842.5 MHz, enabling users to perform cabled or over-the-air loopback between Channel 1 and Channel 2. The new part number for this configuration will be AES-LPA-QRF1800-RVS-G.

The PCB for the new variant remains the same; only the BOM will change to enable the new configuration of AES-LPA-QRF1800-RVS-G. No change to the Channel 2 DPD Observation Path has been made.

The changes to Channel 2 components are listed below.

- Enable CH2 downlink at 1747.5 MHz by replacing bandpass filter TQQ0303 with TQQ302 at U23, and replacing RF Circulator Isolator RFSL5504 with RFSL5408 at U33.
- Enable CH2 uplink at 1842.5 MHz by replacing TQQ0302 with TQQ303 at U22 and U32.
- Enable CH2 duplexer to receive at 1842.5 MHz and transmit at 1747.5 MHz by moving two capacitors to swap connections to the pins of the QPQ1297 Band 3 BAW Duplexer at U34.

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For further assistance contact your local Avnet sales representative to discuss available options.