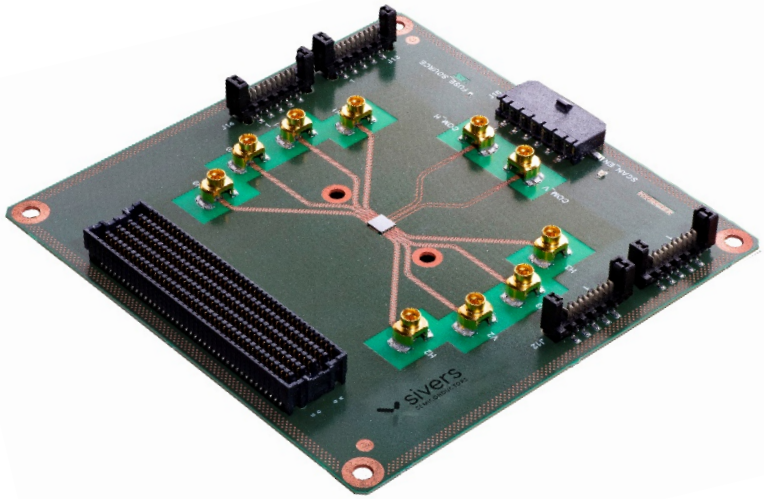
PRODUCT BRIEF – WIRELESS

EVK02002 (26.5-29.5 GHz)
EVK02003 (24.25-27.5 GHz)

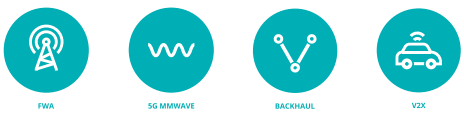
Reduce time to market – speed up your 5G NR mmWave product design using the Evaluation Kits



The Evaluation Kits (EVKs) are designed to help you validate the RF part of your 5G mmWave system. They help you Plug and Play with a minimum of configuration activities and are easily controlled through standardized interfaces. Configuration support and user guidelines are included.

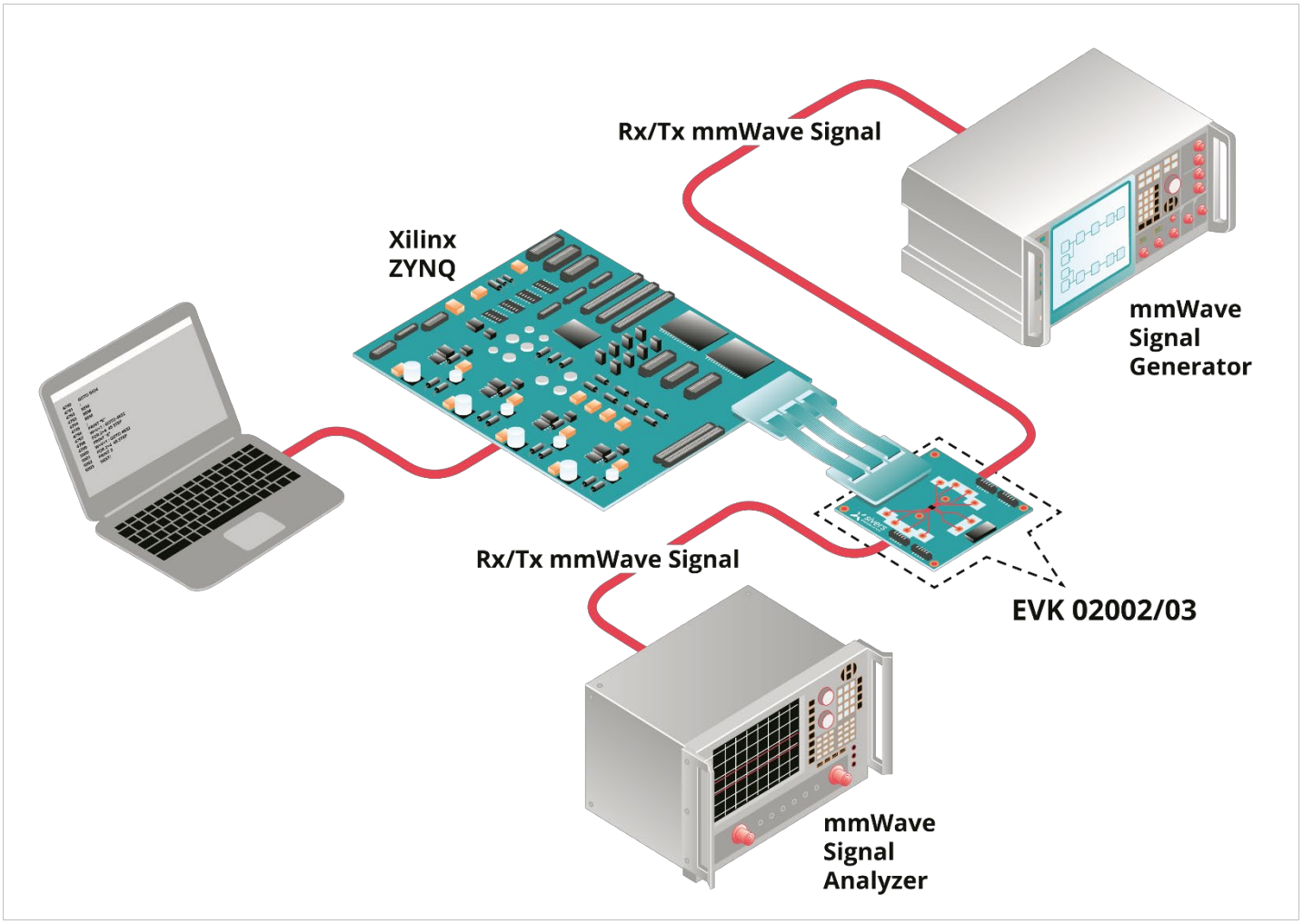
The EVK is a "plug and play" platform to evaluate the Sivers Semiconductors beam steering RFICs – AFEVM2Q275/295 for licensed 5G. The dual quad BFIC is intended for 5G dual polarized phased antenna array applications. Unmatched scalability enables very large array configurations while limiting the number of digital interfaces.

The EVK will enable the user to quickly validate beam steering capabilities together with other system defining RF parameters - critical features when developing a new product with tough requirements on time to market.



Key features

- 24.25 GHz-27.5 GHz (AFEVM2Q275)
- 26.5 GHz-29.5 GHz (AFEVM2Q295)
- 8 individually controlled Rx and Tx Beamforming sections
- Support for horizontal and vertical polarization
- Beam settling rate < 10 ns
- 5.625° phase resolution (6 bit) control in Tx and Rx mode
- 0.5 dB amplitude resolution control in Tx and Rx mode
- Pout1dB > +17dBm per Tx path
- Rx noise figure < 5dB
- 1.8V analog and digital supply
- High speed LVDS interface for on-the-fly beam adjustment



The evaluation board containing AFEVM2Q275/295 is controlled using a Xilinx Zynq board due to the high speed LVDS interface requirement. Software for easy configuration and display of results is included in the EVK kit.

For more information please contact: *sales@sivers-wireless.com*