



PRODUCT BRIEF - WIRELESS

EVK06002 (57 - 71 GHz)

EVK02001 (24 - 29.5 GHz)



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



The Evaluation Kits (EVKs) are designed to help you validate the RF part of your licensed or unlicensed 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.

By combining the market leading performance of the TRX BF/01 RFIC with innovative antenna design, you get the flexibility and performance required for large deployments of 60 GHz FWA networks. Transmitted power close to +40 dBm and 2D beam steering possibilities in one module enable FWA product deployments in the most diverse applications with the lowest total cost of ownership.



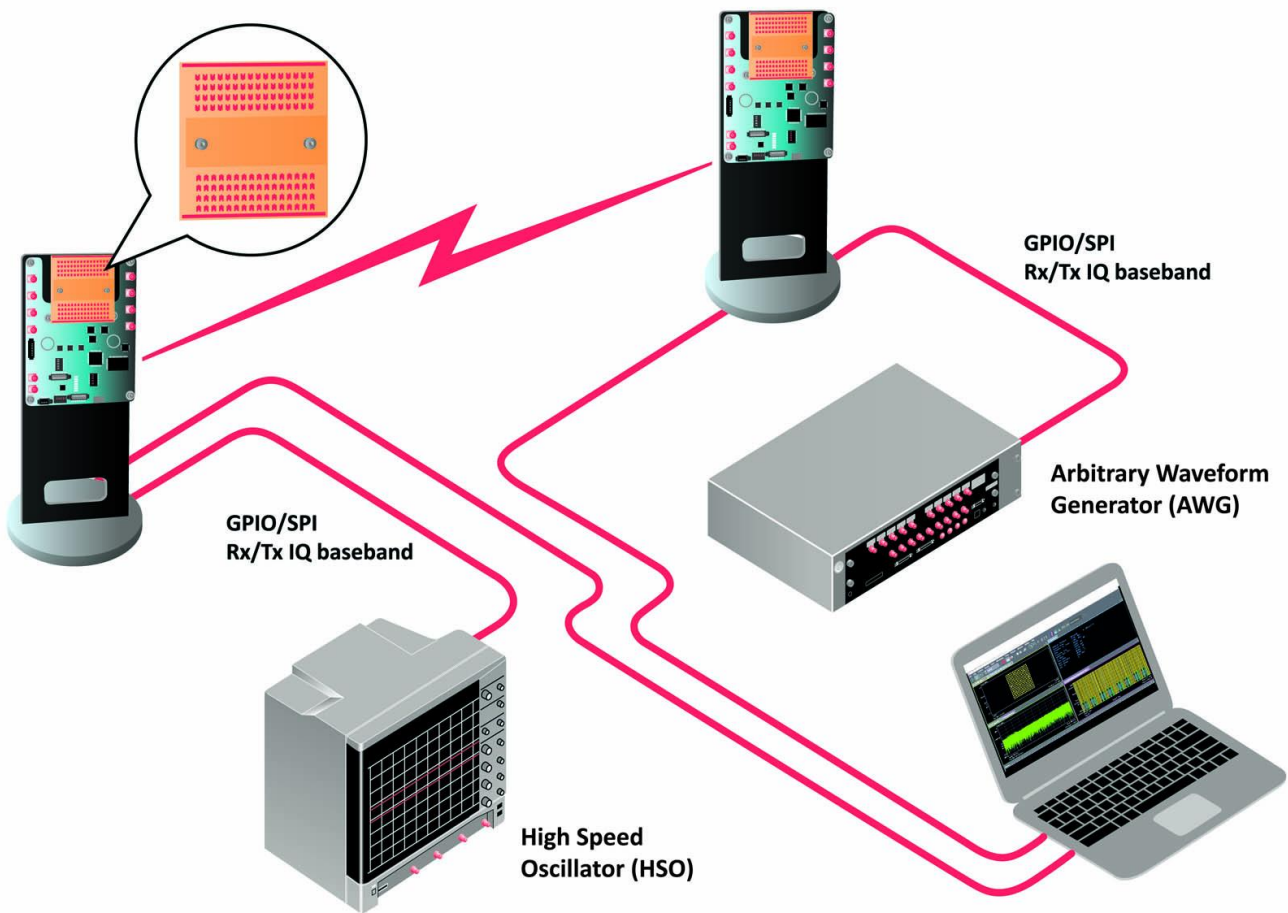
Key features

- Beam steering with Integrated patch array antenna
- Quick validation and proof of concept
- Plug and Play with a minimum of configuration activities
- Easy control of the EVK using the USB interface
- User guideline included
- Configuration support included
- Frequency Range:
 - 24-29.5 GHz (TRX BF/02)
 - 57-71 GHz (TRX BF/01)
- Throughput:
 - Up to 5 Gbit/s (TRX BF/02)
 - Up to 7 Gbit/s (TRX BF/01)
- Including RF Module, Mother Board and Graphical User Interface (GUI)
- Integrated synthesizer with support for 64 or 256 QAM
- Support for 6 full RF channels according to IEEE802.11 ad standard
- Additional support for fractional RF channels (1/2 and 1/4 channels)
- Tx/Rx LO frequency control
- Integrated Beam book for beam steering settings

The RF Module EVKs are “plug and play” platforms, including patch antennas to evaluate the Sivers Semiconductors beam steering RFICs - TRX BF/01 for unlicensed 5G (IEEE 802.11ad) and TRX BF/02 for licensed 5G.

They are designed for seamless operation together with any Zero-IF based baseband solution. Some adaptations may be necessary depending on the functionality and characteristics of the baseband solution.

Everything is included for straight forward operation and 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.



Graphical User Interface (GUI) and software for easy configuration and display of results are included in the EVK kit.