



Mix-and-match different RF modules to speed up your mmWave product design



This Evaluation Kit (EVK) is designed to help you validate the RF part of your unlicensed 5G mmWave system. With an easy Plug and Play and a minimum of configuration activities it is easily controlled through standardized interfaces. Configuration support and user guidelines are included.

The EVK06005 provides an opportunity to utilise three 60 GHz RF modules in your design validation. Depending on your requirements, modules with different features may be plugged into the EVK. The package includes two modules with 1D beam steering (Azimuth) and one module with 2D beam steering (Azimuth and Elevation), each with different EIRP. This provides a unique way to assess the design and test its various capabilities.

By combining the market leading performance of Sivers Semiconductors RFICs with innovative antenna design, you get the flexibility and performance required for large deployments of 60 GHz FWA networks. The RF modules supported by the EVK06005 are BFM06009, BFM06005 and BFM06010. Each module has supporting mechanics for easy installation and configuration.



FWA



5G MMWAVE



BACKHAUL



V2X

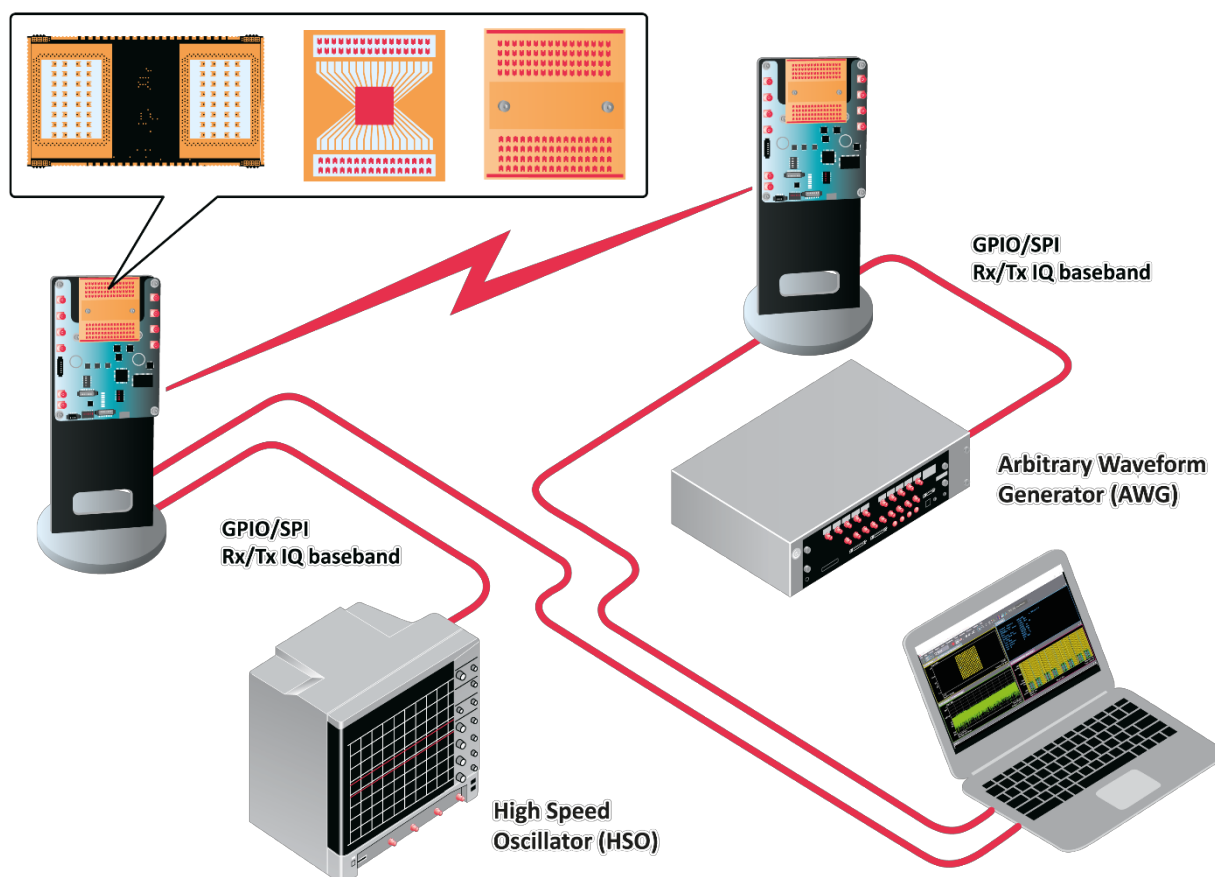
Key Features

- 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, SPI and GPIO interfaces
- User manual included
- Configuration support included
- Frequency Range: 57-71 GHz
- Throughput: Up to 10 Gbit/s
- Including RF Module, Mother Board and Graphical User Interface (GUI)
- Integrated synthesizer with support up to 256 QAM
- Support for 6 full channels according to IEEE802.11 ad standard
- Tx/Rx LO frequency control
- Tx/Rx Analog Base Band I/Q interface
- 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 for unlicensed 5G (and IEEE 802.11ad).

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.



The EVK test setup. RF modules supported by the EVK06005 are BFM06009, BFM06005 and BFM06010. Each module has supporting mechanics for easy installation and configuration.

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