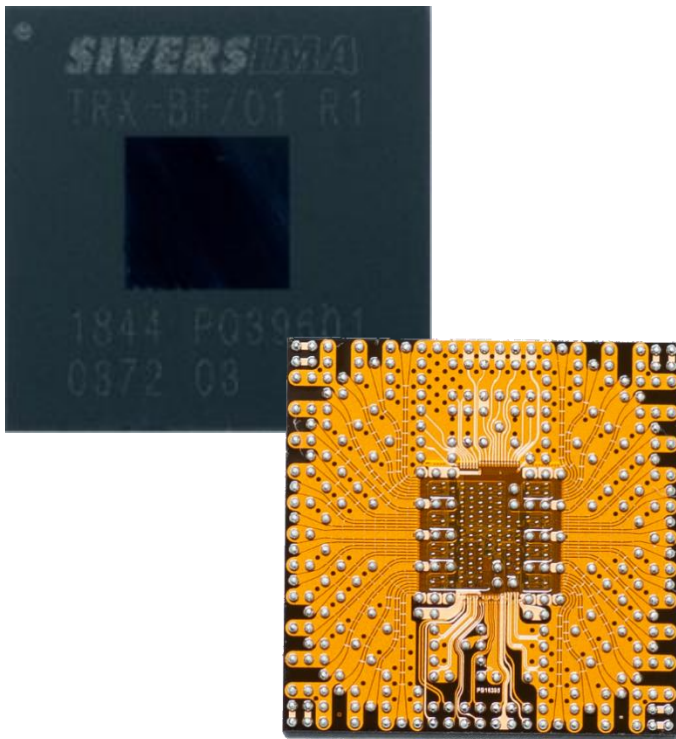




# Unrivalled ready-to-use WiGig RFIC for 57 – 71 GHz



The license free 60 GHz band enables new opportunities to operators where high data rates and range are of essence. The Sivers Semiconductors TRX BF/01 supports the full frequency range from 57 to 71 GHz with speeds up to 7 Gbit/s and beyond, long-range. The perfect choice for unlicensed 5G.

The award winning TRX BF/01, is a WiGig/802.11ad compliant 16+16 channel beam forming transceiver Radio Frequency Integrated Circuit (RFIC) with integrated synthesizer. It supports any mmWave modem with zero-IF interface.

Today the transceiver is fully integrated with the RapidWave™ RWM6050/51 mmWave modem from IDT and CLOPTech's WiGig modem CT6100. Both create ready-to-use 802.11ad (WiGig) communication modules.



## Key features

- 57-71 GHz
- Optimized for 802.11ad/WiGig
- Supports FDD utilizing two transceivers
- Supported throughput 7 Gbit/s
- Enables 64 QAM and beyond (with internal LO)
- Superior phase noise
- 16+16 Tx/Rx Array
- Direct conversion I/Q transceiver
- Integrated beam book for instant beam steering/forming
- Zero-IF with 1.2 GHz bandwidth
- +25 dBm combined linear output power
- 7 dB NF (Noise Figure)
- eWLB (embedded Wafer Level Ball Grid Array) package device
- Seamless modem integration through integrated analog baseband
- Future-proof pre-802.11ay support

The TRX BF/01 can transmit higher data rates at longer distances with greater robustness to interferers. These features enable an extra dimension of flexibility to the final product including TRX BF/01.

The transceiver supports the full temperature range of -40 to +85 deg C, a unique wide band coverage of 57-71 GHz, superior link budget, flexible channelization and excellent Error Vector Magnitude (EVM) performance which enable 64 QAM modulation or more. All of which makes the TRX BF/01 uniquely well fitted for outdoor infrastructure applications.

