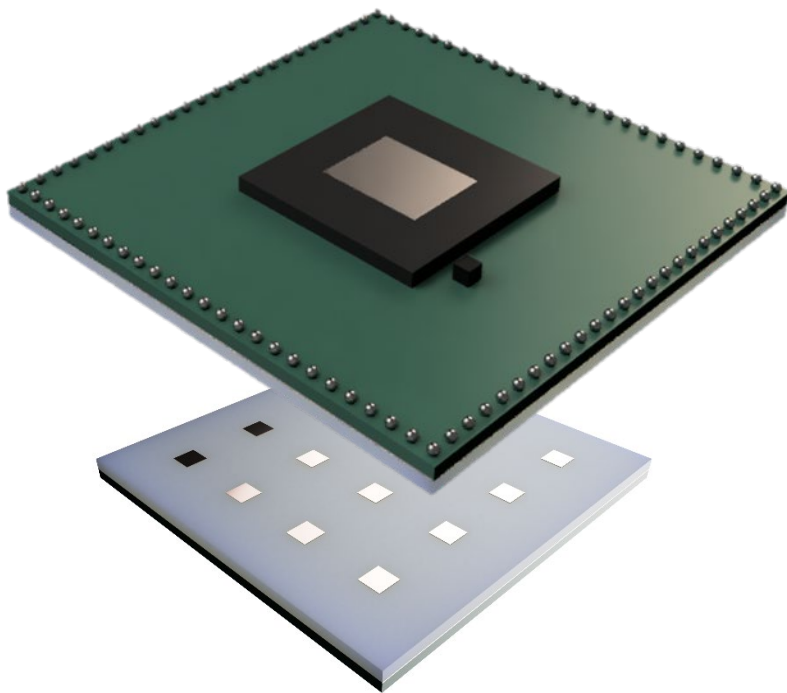




# Best in class, fully powered RFIC and antenna module covering all licensed 5G mmWave bands



Utilize the award-winning experienced RF engineering team at Sivers Semiconductors and let us design the Radio Frequency part in your 5G-NR beamforming access product. Our RF module BFM03901 has unmatched power performance and throughput together with an integrated antenna that gives you a competitive advantage in the licensed 5G race.

By combining the unmatched performance of the TRB03901 RFIC with innovative antenna design, you get the flexibility and performance required for large deployments of your licensed 5G networks.



## Key features

- 37.0 GHz-43.5 GHz
- Wide band transmit and receive antenna array optimized for the 39 GHz band
- Designed for 3GPP NR 5G Fixed Wireless Access (FWA) applications
- Beamforming transceiver with 32 (2x16 H+V) ports enabling two data streams supporting 2 MIMO layers
- RF tiling of multiple transceivers for large array antenna configurations
- Beam steering:
  - Azimuth  $\pm 45$  degrees
  - Elevation  $\pm 45$  degrees
- Integrated T/R-switches, linear power and low noise amplifiers
- Excellent RF performance providing best in class EVM performance
- High-performance synthesizer
- Connection to the baseband modem through:
  - Analog IQ-interface (Zero IF) or
  - IF-interface
- Integrated programmable baseband filters
- Easy to use with autonomous calibration routines and simple baseband interface

**Transmitted power of up to +45 dBm also for the highest data rates with electronic beam steering in one single module enable product deployments in the most diverse applications. Furthermore, autonomous calibration routines and simple baseband interfaces makes it easy to install and manage.**

Small form factor will be key going forward addressing FWA/RAN/O-RAN solutions. This module is setting the scene for 5G-NR RFIC and antenna modules through its high output power levels, intelligent power management and flexibility.