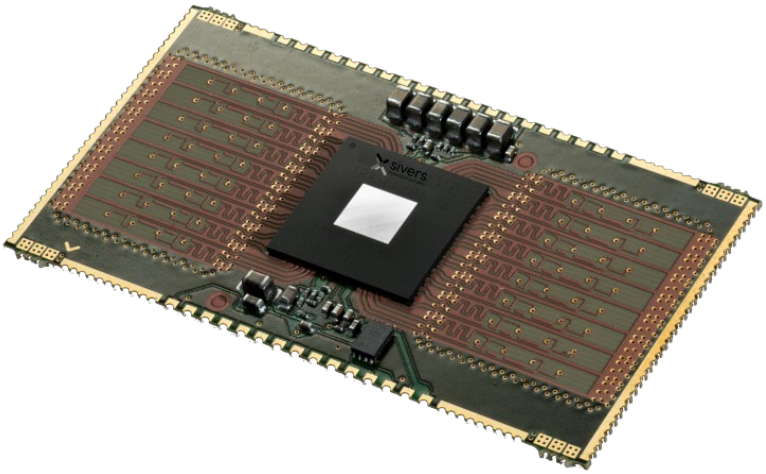
PRODUCT BRIEF - WIRELESS

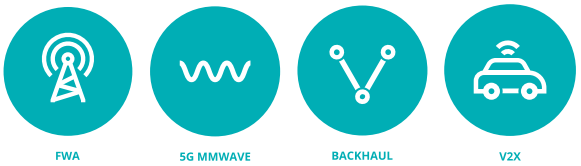
BFM06009

Differentiate your 60 GHz Fixed Wireless Access product



Sivers Semiconductors presents a new, innovative RF Module covering the full 14 GHz of bandwidth (57-71 GHz) with 2D beam steering (steering in both azimuth and elevation). This module enables you to differentiate and meet the requirements of large-scale manufacturing of your 60 GHz Fixed Wireless Access (FWA) products without sacrificing competitive performance.

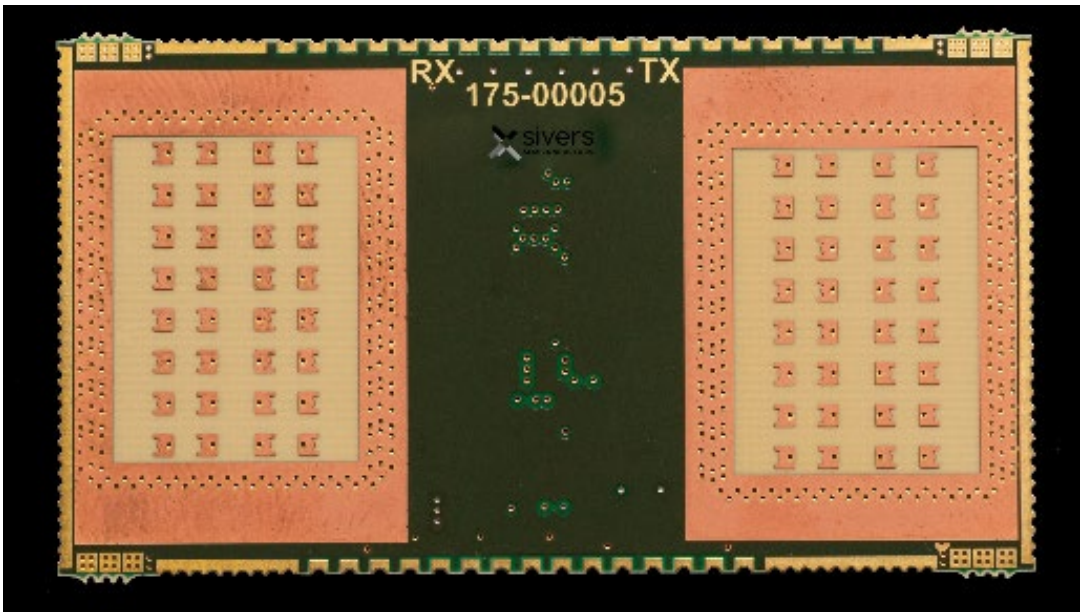
By combining the market leading performance of the TRXBF01 RFIC with innovative antenna design, you get the flexibility and performance required for large deployments of 60 GHz FWA networks. Transmitted power close to +40 dBm and 2D beam steering possibilities in one module enable FWA product deployments in the most diverse applications with the lowest total cost of ownership.

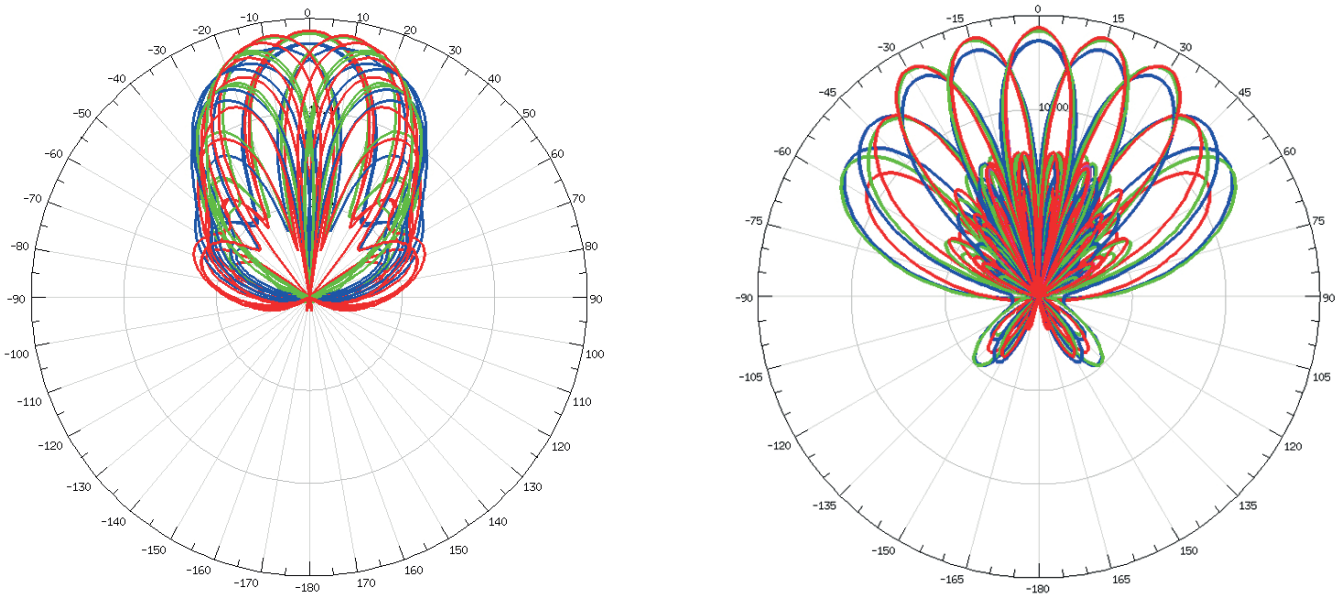


KEY FEATURES

- 57-71 GHz
- Optimized and prepared for unlicensed 5G spectrum (802.11ad and 5G NR-U, TDD)
- Supported throughput 10 Gbit/s
- Enables up to 256 QAM SC with integrated synthesizer
- 16+16 Tx/Rx Array
- Direct conversion I/Q transceiver
- IF bandwidth 1.2 GHz
- Integrated beambook for instant beam steering / forming
- Beam steering:
  - Azimuth ± 54 degrees
  - Elevation ± 25 degrees
- +39 dBm TX EIRP
- 7 dB NF (Noise Figure)
- Electrical interface: Castellated vias to baseband board
- Seamless low-cost modem integration through integrated analog baseband and autonomous calibration

With the use of a solder-in castellated-via electrical interface, the module is optimized for large scale, low cost assembly. For existing customers using previous modules the BFM06009 is fully backward compatible using a simple adapter board. This module will improve your business case and make your 60 GHz fixed wireless access product truly competitive.





BFM06009 beam array for elevation and azimuth.

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