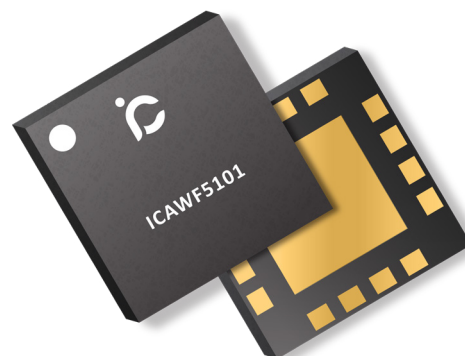




5 GHz Wi-Fi® 7 and Wi-Fi® 8 Front-End Module

iCana® **ICAWF5101** is a high-power, high-performance, integrated Front-End Module (FEM) designed for Wi-Fi 7 and Wi-Fi 8 (802.11be/bn) systems. The FEM consists of a fully integrated power amplifier (PA), low-noise amplifier (LNA), transmit / receive (T/R) switch, coupler and power detector. It is optimized for 5V operation and comes in a small 16-pin 3 x 3 mm² QFN package that is pin-to-pin compatible within the product family.



16-pin 3 x 3 mm² QFN Package

Key Features

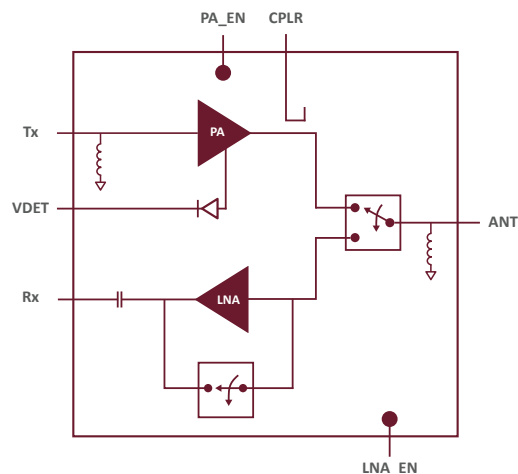
- 5150 - 5925 MHz
- Output power:
 - 17 dBm, MCS13 EHT160, -47 dB DEVM
 - 20 dBm, MCS11 HE80, -40 dB DEVM
 - 22 dBm, MCS9 VHT80, -35 dB DEVM
 - 23 dBm, MCS7 HT40, -30 dB DEVM
 - 27 dBm, MCS0 HT20, spectral mask compliance
- Tx gain: 31.5 dB
- Rx gain: 14.5 dB
- Noise Figure: 1.8 dB
- Package size: 3 x 3 x 0.92 mm³

Typical Applications

- Access points
- Wireless routers
- Gateways
- Customer premise equipment

Ordering Guide

Part Name	Description
ICAWF5101	5 GHz Wi-Fi 7 and Wi-Fi 8 Front-End Module
ICAWF5101-EVB	Evaluation Board for ICAWF5101A



Functional Block Diagram

Wi-Fi 7 and 8 FEM Product Line

Product Name	Frequency Range
ICAWF2101	2.4 – 2.5 GHz
ICAWF5101	5.1 – 5.9 GHz
ICAWF6101	5.9 – 7.1 GHz