

 APARADIGMS

WIFI PRODUCTS





# WiFi Front-End Integrated Circuits

Complete RF Front-End Functionality to Enable 802.11n and 802.11ac Devices with Longer Battery Life, Greater Range and Higher Data Throughput

Our front-end integrated circuits (FEICs) for WiFi applications provide an industry-leading combination of integration, efficiency, and linearity to minimize time-to-market, increase battery-life, and maximize throughput for mobile devices, such as smartphones, tablets, netbooks, notebooks, and gaming systems. These FEICs use our exclusive InGaP-Plus™ technology and patented design architectures to combine a power amplifier (PA), low-noise amplifier (LNA), and RF switch on a single die. This level of integration reduces space requirements and simplifies RF front-end design. ANADIGICS' WiFi FEICs also deliver exceptional error vector magnitude (EVM) and noise figure performance, which enables ultra-high data throughput and connectivity over greater range.

- **Industry-leading Integration** of the PA, LNA, Tx/Rx switch to simplify RF design and reduce time-to-market
- **Compact 2.5 x 2.5 x 0.4 mm QFN package** with high-accuracy, integrated power detector, and RF ports internally matched to 50 Ohms to reduce PCB space requirements
- **Best-in-class efficiency** to maximize battery-life in mobile devices
- **Low EVM** to maintain high-modulation accuracy for error-free transmission

## Optimized for 802.11n/ac Applications

Frequency (MHz)	Standard	Output Power (dBm)	EVM (%)	Gain (dB)	Supply (V)	Package Size (mm)	Part Number
2400 – 2500	802.11b/g/n/ac	+18	2.5	28	3.6	2.5 x 2.5 x 0.4	AWL9281
4900 – 5875	802.11a/n/ac	+16	1.8	30	3.6	2.5 x 2.5 x 0.4	AWL9581

## Optimized for 802.11n Applications

Frequency (MHz)	Standard	Output Power (dBm)	EVM (%)	Gain (dB)	Supply (V)	Package Size (mm)	Part Number
2400 – 2500	802.11b/g/n	+19	3	26	3.6	2.5 x 2.5 x 0.4	AWL9280
4900 – 5875	802.11a/n	+18	2.5	27	3.6	2.5 x 2.5 x 0.4	AWL9580



# WiFi Power Amplifiers

High Performance Single-Band and Dual-Band Power Amplifiers Optimized for Mobile and Infrastructure Applications

Our WiFi power amplifiers deliver higher output power for better, wider wireless coverage, higher efficiency for longer battery-life, and greater linearity for high, error-free data rates. With single or dual-band support for 802.11a/b/g/n, our WiFi PAs enhance the performance of WiFi chipsets, save space, reduce component count, and enable maximum wireless coverage.

- **Outstanding efficiency** to maximize battery-life in mobile devices
- **Low EVM** to maintain high-modulation accuracy for error-free transmission
- **High gain and output power** to maximize wireless coverage

## Optimized for Mobile Applications

Frequency (MHz)	Standard	Output Power (dBm)	EVM (%)	Gain (dB)	Supply (V)	Package Size (mm)	Part Number
2400 – 2500	802.11b/g	+20	3	32	3.3	3 x 3 x 0.9	AWL9224
2400 – 2500	802.11b/g/n	+20	2.9	32	3.3	4 x 4 x 1.3	AWL6951
4900 – 5900	802.11a/n	+19	3.3	29			
2400 – 2500	802.11b/g	+19	2	31	3.3	4 x 4 x 0.9	AWL9924
4900 – 5900	802.11a	+18.5	3.8	30.5			
4900 – 5850	802.11a	+19	2.2	29	3.3	3 x 3 x 0.55	AWL9555

## Optimized for Infrastructure Applications

Frequency (MHz)	Standard	Output Power (dBm)	EVM (%)	Gain (dB)	Supply (V)	Package Size (mm)	Part Number
2400 – 2485	802.11b/g	+21	3	29.5	3.0 – 5.5	4 x 4 x 1.4	AWL6153



## Your RF Advantage

At ANADIGICS, our singular focus is developing best-in-class RF solutions that deliver a competitive edge. Our exceptional team of RF designers continuously innovates to create next-generation products that provide measurably superior performance. These performance advantages are backed by our outstanding sales and applications support teams to help you reduce time-to-market and achieve your design goals. So, whether you are trying to extend coverage range, ensure optimal thermal design, or achieve greater throughput, trust ANADIGICS for your next project.

### The ANADIGICS Advantage

- Industry-Leading RF Performance
- World-Class RF Integration
- Advanced Process Technology
- Innovative Design Techniques
- Manufacturing Prowess
- Applications Expertise
- Global Presence

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Specifications subject to change. Consult ANADIGICS for latest specifications.

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