

# QCA9982 SoC



## Wave-2 802.11ac Solution with MU-MIMO for Home Networks

The QCA9982 is a Wave-2 802.11ac radio that helps high-performance Wi-Fi routers, gateways, set-top boxes and range extenders to support more devices and more demanding applications in the connected home. The dual-band, 3x3 solution is designed to deliver peak data rates up to 1.3 Gbps, and uses Multi-User MIMO to maintain fast connections on increasingly crowded networks.

QCA9982 is a product of Qualcomm Technologies, Inc., and/or its subsidiaries.

## Specifications

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### Process

**Process Technology:** 40 nm

### Wi-Fi

**Wi-Fi Standards:** 802.11ac Wave 2, 802.11ac, 802.11a/b/g, 802.11n

**Wi-Fi Spectral Bands:** 2.4 GHz, 5 GHz

**Peak Speed:** 1.3 Gbps

**Channel Utilization:** 20/40/80 MHz

**MIMO Configuration:** 3x3 (3-stream)

**Wi-Fi Features:** MU-MIMO, TxBF, Qualcomm® Wi-Fi SON

### Power Management

**Maximum Input Voltage:** 3.3V

### Security Support

**Wi-Fi Security:** 802.11i security, AES-CCMP, AES-GCMP, TKIP, WAPI, WEP, WPA, WPA2, WPS

### Interface

**Layers:** MAC, PHY

**Supported Interfaces:** I<sup>2</sup>C, JTAG, PCIe 2.0, SPI, UART

### Input/Output

**Maximum PIOs:** 35

### Package

**Package Type:** DRQFN

**Package Size:** 12 x 12 mm