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QCA6595AU

Overview Documentation Software Hardware

First MIMO +SISO Dual MAC, Dual Band Simultaneous Wi-Fi 5/ BT 5.1 Combo for Automotive market.

QCA6595AU Wi-Fi 5 / BT5.1 Automotive Dual-MAC Combo Chip is the most advanced Wi-Fi 5/ BT 5.1 combo chip in the automotive Infotainment and Telematics markets.

Designed to address ....

more

Qualcomm QCA6595AU Wi-Fi 5 / BT5.1 Automotive Dual-MAC Combo Chip is a product of Qualcomm Technologies, Inc. and/or its subsidiaries.
Product license agreement

Dual MAC Dual Band Simultaneous Wi-Fi 5

Simultaneous operation in 2.4 GHz and 5 GHz bands with MIMO + SISO Wi-Fi 5 supports PHY

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Bluetooth 5.1

Fully featured Bluetooth 5.1 including AoA/AoD (Angle of Arrival / Angle of Departure) and Long Range Bluetooth Low Energy for Digital Key and Tire Pressure Monitoring Applications

Advanced Security

WPA3, Enhanced Open, Easy Connect security features offer secure connections with protection from eavesdropping and forging.

Features

- 2.4GHz + 5GHz Dual Band simultaneous
- Dual Mac
- MIMO +SISO
- 802.11 ac (Wi-Fi 5)
- Qualcomm® aptX™ HD Audio Encode and Decode
- > 1 Gbps PHY throughput
- 32 Wi-Fi Client Support
- Best in Class Integrated 2.4GHz / 5GHz PA (Power Amplifier) and LNA (Low Noise Amplifier) maximized RF link budget

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Long Range Bluetooth Low Energy for Digital Key and Tire Pressure Monitoring Applications

- Dual Bluetooth eSCO , Dual A2DP audio support
- aptX Codec Super Wideband Voice Support
- 2 or 3 Antenna Support for optimum Bluetooth / 2.4GHz Wi-Fi operation
- 28nm RF CMOS process technology
- QFN Dual Row Package for Module or Chip-On-Board assembly
- AECQ100 Grade 3 qualification

Specifications

Wi-Fi

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

Wi-Fi Spectral Bands: 2.4GHz, 5GHz

Peak Speed: 1.01 Gbps

Channel Utilization: 20/40/80 MHz

MIMO Configuration: 2x2 (2-stream), 1x1 (1-stream)

Wi-Fi Features: MU-MIMO, Dual-band simultaneous (DBS)

Bluetooth

Bluetooth Audio: Dual A2DP, Dual eSCO

Bluetooth Version: Bluetooth 5.1

Bluetooth Technology: BR, EDR, Bluetooth Low Energy Long Range

General Audio

Audio Technology: Qualcomm® aptX™ audio technology

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Supported Interfaces: I^2S, PCIe, PCM, UART

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Compare related products.

Product	Wi-Fi Standards	Wi-Fi Spectral Bands	Peak Speed	MIMO
QCA6595AU Chipset	802.11ac 802.11a/b/g 802.11n	2.4GHz 5GHz	1.01 Gbps	2x2 (2· 1x1 (1-s
QCA6696 Chipset	802.11ax 802.11ac 802.11a/b/g 802.11n	2.4GHz 5GHz	1.774 Gbps	2x2 (2·
QCA6574AU Chipset	802.11ac 802.11a/b/g 802.11n	2.4GHz 5GHz	866 Mbps	2x2 (2·
QCA6564AU Chipset	802.11ac 802.11a/b/g 802.11n	2.4GHz 5GHz	433 Mbps	1x1 (1-s

Development tools and purchase options.

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QCA-6595AU-0-DRQFN130-MT-02-0 BY QUALCOMM

Chip Product

QCA6595AU (002-0), DRQFN130, HOSTED WIFI BT IC 2X2 11AC + 1X1 DBS AND BT5.1, GENOA (2.0), TSMC

Purchase options



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