QCA9994 SoC

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Overview Hardware

Wave-2 802.11ac Solution with MU-MIMO and 160MHz for Enterprise Networks

The QCA9994 is a Wave-2 802.11ac radio that enables premium Wi-Fi access points to support more devices and more demanding applications in the enterprise and carrier hotspots. The dual-band, 4x4 solution delivers peak data rates up to 1.7 Gbps, and uses Multi-User MIMO to maintain faster connections on increasingly crowded networks. The QCA9994 also supports 160MHz and 80+80MHz channels to double the capacity at close range.

QCA9994 is a product of Qualcomm Technologies, Inc., and/or its subsidiaries.

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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:** 2.4GHz, 5GHz **Peak Speed:** 1.733 Gbps **Channel Utilization:** 20/40/80/160 MHz **MIMO Configuration:** 4x4 (4-stream) **Wi-Fi Features:** MU-MIMO, TxBF, Qualcomm® Wi-Fi SON
Security Support	**Wi-Fi Security:** WPA2, WPA, WPS, 802.11i security, AES-CCMP, AES-GCMP, TKIP, WAPI, WEP
Interface	**Layers:** MAC, PHY **Supported Interfaces:** I²C, JTAG, PCIe 2.0, SPI, UART
Input/Output	**Maximum PIOs:** 35
Package	**Package Type:** DRQFN **Package Size:** 12 x 12 mm

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WLE1216V2-20

BY COMPEX SYSTEMS PTE. LTD.

Module / SoM

Based on Qualcomm® QCA9984 and Qualcomm® QCA9994 SOCs, WLE1216V2-20 is a single band 2.4GHz 4x4 11ac Wave 2 MU-MIMO radio module. It is capable of delivering Tx power of up to 21dBm per chain. The radio module supports up to 120 concurrent clients, designed for Enterprise and SDWAN routers.

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WLE1216V5-23

BY COMPEX SYSTEMS PTE. LTD.

Reference Design

Using Qualcomm® QCA9984 and Qualcomm® QCA9994 SOCs, WLE1216V5-34 is a single band high power 5GHz 4x4 11ac Wave 2 MU-MIMO radio module. It is capable of delivering Tx power of up to 23dBm per chain. The radio supports Dynamic Frequency Selection (DFS), allowing wider frequency band for seamless 5GHz connectivity. The r...

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WLE1216VX

BY COMPEX SYSTEMS PTE. LTD.

Module / SoM

Based on Qualcomm® QCA9984/Qualcomm® QCA9994 SoCs, WLE1216VX is capable of switching between 2.4GHz and 5GHz without the need of hot reset. It is capable of delivering Tx power of up to 20dBm per chain for 2.4GHz, and up to 19dBm per chain for 5GHz. The radio supports Dynamic Frequency Selection (DFS), allowing wider f...

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