Product Overview

QT7860: RF Transceiver, WiFi 6, 8x8, 5-7 GHz

For complete documentation, see the data sheet.

The QT7860 is a 5-7 GHz RF chip that supports 802.11ax/ac/n/a 8x8 MIMO for best-in-class performance. Coupled with QCS-AX2 family of baseband, QT7860 offers the world's fastest and highest performance Wi-Fi solution. QT7860 is the best Wi-Fi 6E solution for next generation Wi-Fi access points and gateways. This allows enhanced performance and reliability for the delivery of mission-critical services over Wi-Fi.

Features

- 8Tx/8Rx Chains to Support True 8x8 MIMO System or Two Independent 4x4 MIMO Radios

- Supports 20/40/80/160 MHz Bandwidths in Both 4x4 and 8x8 Mode

- Integrated Baluns for the Tx Outputs and Rx Inputs
- Integrated LNAs
- Integrated Temperature Sensor

Benefits

- Enable smooth transition to 6GHz bands by adaptive selection between 8x8:8ss 5GHz + 4x4:4ss 2.4GHz dual-band dual-concurrent and 4x4:4ss 6GHz + 4x4:4ss 5GHz + 4x4:4ss 2.4GHz tri-band tri-concurrent based on Wi-Fi 6E ecosystem readiness.

- Enable performance adaptability and fully leverage 8x8:8ss MU-MIMO and Tri-Band bandwidth to boost capacity, throughput and range based on different deployment environments.

- 10Gbps highest performance WLAN solutions
- Minimum host CPU load and memory utilization
- Flexible interfaces with varieties of host processors

Applications

- Carriers and Service Providers CPE

End Products

- Access Points
- Gateways

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Wi-Fi Standard	MIMO	Band Support (GHz)	Application	Chipset	Package Type
QT7860		non AEC-Q and PPAP	ProductPreview	WiFi 6	8x8	5 / 6	Access Point, Gateway, Router	QCS-AX2-A12 / QCS-AX2-T12 / QCS-AX2-T8	FCBGA-225

For more information please contact your local sales support at www.onsemi.com.

Created on: 7/30/2021