QCA9377 includes both dual-band 1x1 802.11ac and Bluetooth 4.2 features

QCA9377 combines advanced 1x1 dual-band 802.11ac MU-MIMO Wi-Fi + Bluetooth 4.2 in a high performance, ultra low power, small form factor System-on-Chip (SoC).

Designed to deliver superior integration of WLAN and Bluetooth low energy technology in a single-chip solution, the QCA9377 SoC offers both low power dual-band (2.4 & 5GHz), 1-stream (1x1), 802.11ac MU-MIMO and Bluetooth 4.2 technologies.

QCA9377 supports high-speed Wi-Fi connectivity and enriched media experiences for virtually all connected devices. It is optimized for energy efficiency, which is critical to extending the battery life of portable devices. The software stack offers quality, stability and performance with an open source option and the architecture allows for virtually seamless evolution.

QCA9377 allows for superior rate-over-range throughput and low-latency performance in real-world operating conditions by incorporating Bluetooth coexistence, a special periodic switching of the antenna designed to enable both Wi-Fi and Bluetooth to operate in the same module effectively at the same time.

The two variants available for QCA9377 are QCA9377-3, which supports a low-power SDIO 3.0 interface for WLAN and a UART/PCM interface for Bluetooth and QCA9377-7, which supports a low-power USB 2.0 interface for WLAN and a USB 1.1 interface for Bluetooth.

Qualcomm Wi-Fi Solutions and QCA9377 are products of Qualcomm Technologies, Inc.

Materials are subject to change without notice.

87-YB797-1 Rev A

Downloaded from Arrow.com.
## Features
- 1x1 802.11ac + Bluetooth 4.2 in a single SoC
- Supports Bluetooth 4.2 + HS, Bluetooth low energy and is backward compatible with Bluetooth 1.x and 2.x
- Single regulated 3.3V supply operation
- Integrated RF Front End, single ended design
- Offloading for minimal host utilization
- Low-density parity check (LDPC) encoding/decoding
- STBC, MU-MIMO, Transmit Beam-forming
- 1.5KB OTP to eliminate an external flash
- 256-QAM in 2.4GHz
- Enhanced Coexistence Bluetooth and LTE; concurrent operation
- PCB friendly: WLP to go on 4-L FR4 non-HDI PCB
- Provides a 48MHz reference clock
- 1216KB RAM and 448KB ROM for Wi-Fi
- 192KB RAM and 672KB ROM for Bluetooth

## Ordering Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>QCA9377-3 SOC</td>
<td>QCA9377-3-115WLNSP-03</td>
</tr>
<tr>
<td>QCA9377-7 SOC</td>
<td>QCA9377-7-115WLNSP</td>
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</tbody>
</table>

For additional product information and updates go to: [developer.qualcomm.com/hardware/qca9377](http://developer.qualcomm.com/hardware/qca9377)