



# 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution

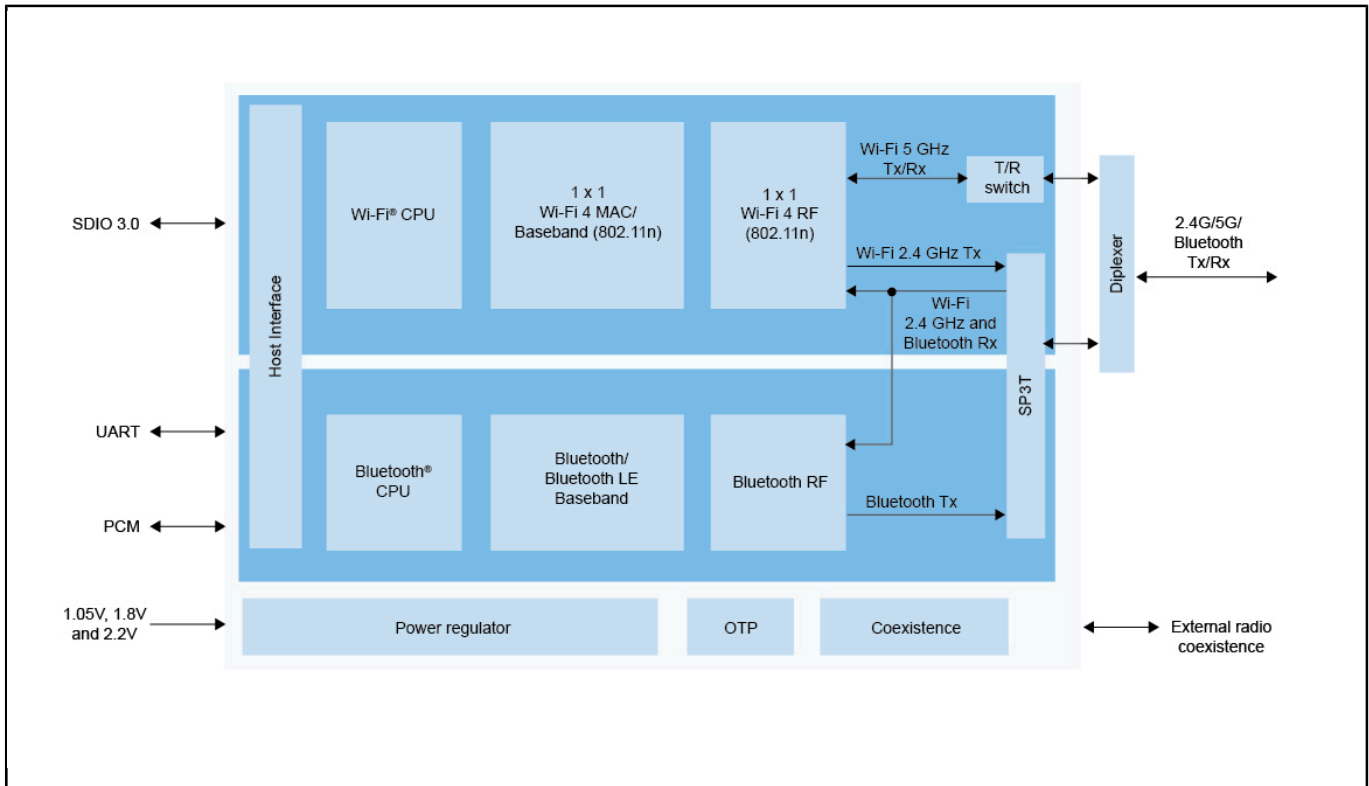
## 88W8977

Last Updated: Oct 9, 2024

The 88W8977 System-on-Chip (SoC) is a highly integrated single-chip solution that incorporates both Wi-Fi (2.4/5 GHz) and Bluetooth technology. The IEEE 802.11n compliant dual-band system-on-chip offers Wi-Fi data rates up to MCS 7 (150 Mbit/s). The SoC is specifically designed to support the speed, reliability, and quality requirements of devices such as wearables, Internet of Things (IoT) and smart home applications. The Combo solution provides both simultaneous and independent operation of the IEEE 802.11n compliant 1x1 spatial stream and Bluetooth 5.2 with high speeds and mesh networking for increased Internet of Things (IoT) functionality.

Wireless modules based on the NXP 88W8977 are offered by leading [module manufacturers](#).

## 88W8977 Block Diagram Block Diagram



View additional information for [2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 \(802.11n\) + Bluetooth® 5.2 Solution](#).

**Note:** The information on this document is subject to change without notice.

[www.nxp.com](http://www.nxp.com)

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.