



Providing capacity and coverage needed for high-efficiency wireless platforms

NXP® 88W9064 4x4 Wi-Fi® 6 Dual Band with Bluetooth® 5 SoC

The NXP 88W9064 SoC family of Wi-Fi access solutions provides an advanced 802.11ax feature set and draws on the strength of our beamforming technologies. Integrated MU-MIMO and OFDMA solutions help increase capacity for downlink and uplink traffic to allow for overall improved network utilization while meeting the growing demands of user applications. standard compliance.

PRODUCT OVERVIEW

The NXP 88W9064 SoC family of Wi-Fi access solutions provides an advanced 802.11ax feature set and draws on the strength of our beamforming technologies. Integrated MU-MIMO and OFDMA solutions help increase capacity for downlink and uplink traffic to allow for overall improved network utilization while meeting the growing demands of user applications.

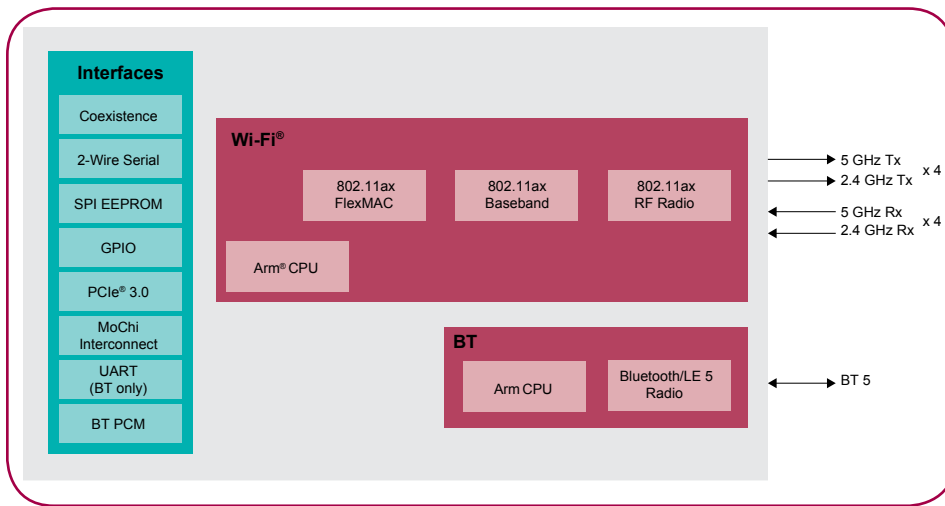
Other features of the 88W9064 family include integrated Bluetooth 5 and precision device location function that provides accurate positioning within 1 meter and 10 degrees. Bluetooth 5 supports classic Bluetooth and Bluetooth Low Energy with features such as long-range and direction finding using angle of arrival (AoA) and angle of departure (AoD). The added Bluetooth capability can be leveraged to provide a more cost-effective and complete solution for users' connectivity needs.

TARGET APPLICATIONS

- ▶ 88W9064 SoC
 - Enterprise & retail access points
 - Broadband gateway
 - Fixed wireless
- ▶ 88W9064S SoC
 - Service provider set-top box
 - Over-the-top set-top box



88W9064/88W9064S BLOCK DIAGRAM



KEY FEATURES AND BENEFITS

FEATURES	88W9064	88W9064S
Wi-Fi®	<ul style="list-style-type: none"> • IEEE® 802.11ax, 802.11ac Wave 2, 802.11a/b/g/n • 20/40/80/160 (80+80) MHz channel bandwidths • 2.4 Gbit/s peak data rate • Implicit and explicit beamforming 	<ul style="list-style-type: none"> • IEEE 802.11ax, 802.11ac Wave 2, 802.11a/b/g/n • 20/40/80/160 (80+80) MHz channel bandwidths • 1.2 Gbit/s peak data rate • Implicit and explicit beamforming
802.11ax	<ul style="list-style-type: none"> • Downlink OFDMA and MU-MIMO • Uplink OFDMA and MU-MIMO • 1024 QAM • Spatial re-use • Range extension • DCM 	<ul style="list-style-type: none"> • Uplink and Downlink OFDMA and MU-MIMO • 1024 QAM • Spatial re-use • Range extension • DCM
Flex MAC	<ul style="list-style-type: none"> • Adaptable architecture for standards evolution • Management of high number of traffic queues • Advanced scheduling 	<ul style="list-style-type: none"> • Adaptable architecture for standards evolution
Bluetooth®	<ul style="list-style-type: none"> • Support for Bluetooth 5 • Direction finding • Long range • Co-existence arbitration 	<ul style="list-style-type: none"> • Support for Bluetooth 5 • Direction finding • Long range • Co-existence arbitration
Dedicated In-Service Monitoring	<ul style="list-style-type: none"> • Concurrent spectrum scanning • Zero wait DFS 	
Precision Location	<ul style="list-style-type: none"> • Distance: within 1 meter • Angle: within 10 degrees 	<ul style="list-style-type: none"> • Distance: within 1 meter • Angle: within 10 degrees
Host Interfaces	<ul style="list-style-type: none"> • MCi (2-Lane) • PCIe® 3.0 (2-Lane) • High-Speed UART (for Bluetooth only) 	<ul style="list-style-type: none"> • MCi (2-Lane) • PCIe 3.0 (2-Lane) • High-Speed UART (for Bluetooth only)

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 Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by NXP Semiconductors is under license. Arm is a trademark or registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2019 NXP B.V.

Document Number: M88W9064FS REV 0
Published: September, 2019

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 88W9064-A1-BWPC/AK on WIN SOURCE](#)

 [NXP / Nexperia Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management