

88MW320/322 Development Boards

NXP Semiconductor

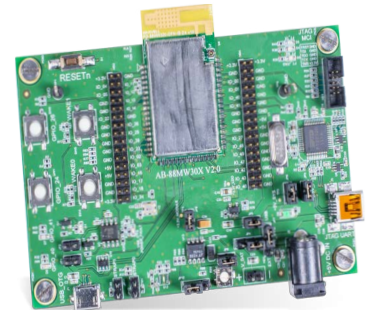
Product Overview

06-14-2021

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

NXP Semiconductors 88MW320/322 Development Boards are used to prototype the 88MW320/322 Wi-Fi Microcontroller SoCs and these SoCs are part of the Wi-Fi Microcontroller Platform. This platform is easy-to-use, cost-effective, and provides platforms like hardware/software to build smart connected devices. These devices are built using low-power 802.11 b/g/n Wi-Fi SoCs and high-performance 88MW32x Arm Cortex-M4F Microcontrollers. The 88MW320/322 development boards will quickly prototype and connect devices to AWS IoT cloud services. They are qualified with Amazon FreeRTOS and can be used to develop services and applications for businesses and consumers.



The Home Kit SDK that's built on the top of industry-leading EZ-Connect Software SDK will simplify the development of Home Kit accessories. The latest WMSDKA is certified for Apple's HomeKit Specification and iCloud implementation. OEM customers using SDK save the cost of months of hosting effort and development implementation and Apple's HomeKit Specification.

Features

- Amazon Alexa Voice Service (AVS) supported, Amazon Free RTOS qualified, and
- Apple Home Kit certified
- Highly integrated SoC requiring very few external components for a full system operation
- Multiple low-power modes and fast wake-up times
- Full-featured, single stream 802.11n/g/b WLAN
- Improved typical RF performance
- High efficiency PA with a low-power (10dB) mode
- Cortex-M4F application CPU for applications with integrated 512KB SRAM and 128KB mask ROM
- Flash Controller with embedded 32KB SRAM cache to support XIP from external SPI Flash
- Secure boot, WPA3 WLAN security

- Unique hardware bit to authenticate SDK with the chipset
- Full set of digital and analog I/O interfaces
- Operates at 0° to 70°C, -30° to 85°C, and -40° to 105°C temperature ranges

Specifications

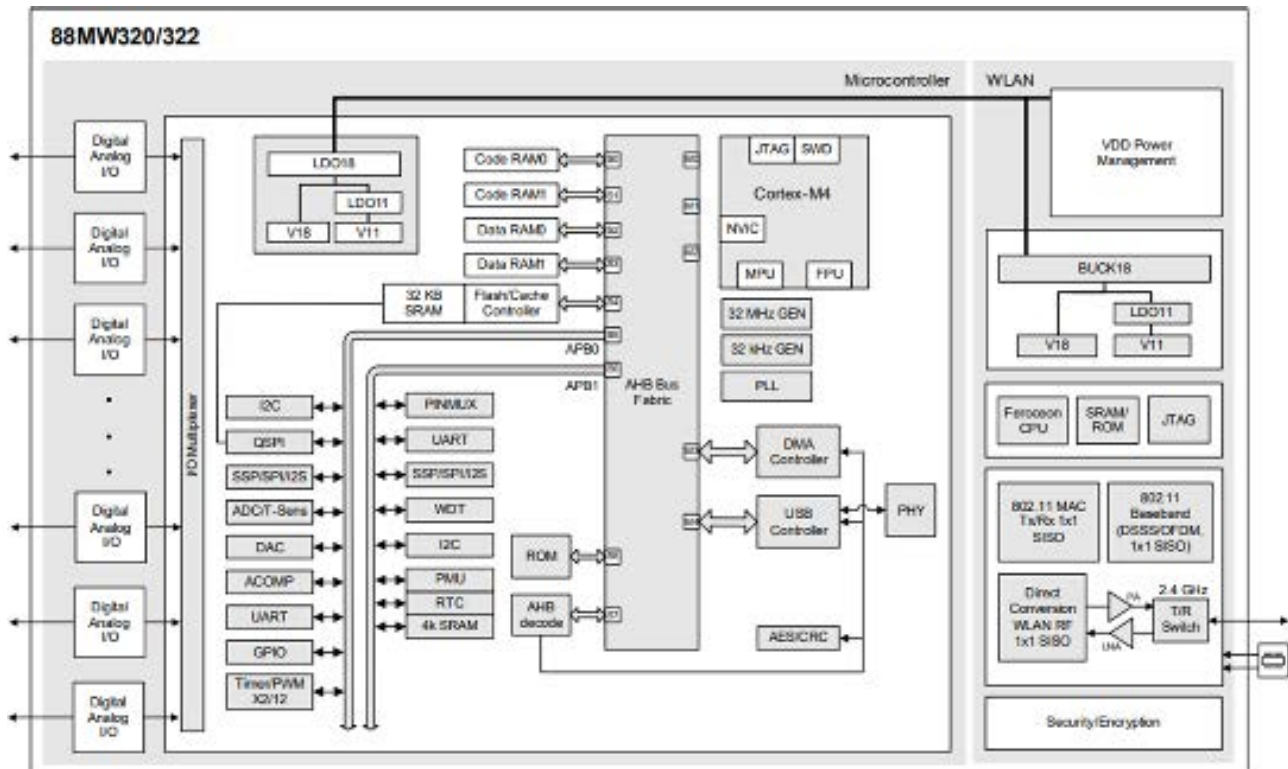
88MW320 68-pin

- GPIO 35
- USB 2.0, OTG N/A
- GPT 2

88MW322 88-pin

- GPIO 50
- USB 2.0, OTG 1
- GPT 4

88MW320/322 Block Diagram



Mouser Part Number(s)

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/nxp-semiconductors/nxp-mw320-322-boards/>