



TXW8301
QFN48

TXW8301

Ultra Long Distance Wi-Fi HaLow SOC

TXW8301 is a high performance, IEEE 802.11ah standard compliant SOC. The SOC integrates RF, modem and MAC, operates in the Sub 1GHz license-exempt band, supports 1/2/4/8MHz channel widths. The data rate of RF-PHY is 150Kbps~32.5Mbps.

TXW8301 follows the Wi-Fi HaLow™ standard with low power and long distance, introduced by WiFi Alliance and IEEE. The chip runs on frequencies below 1GHz, expanding the range of connection compared to Wi-Fi usage. Wi-Fi HaLow™ provides longer distance and lower power connection with up to 8191 connections. Wi-Fi HaLow™ meets the wide needs of the monitoring field and the Internet of Things (IoT). It supports wide applications in smart home, industry, agriculture, smart building and smart city environment. TXW8301, designed by Zhuhai Huge-IC based on IEEE 802.11ah protocol, is an industry-leading SOC chip. And the AH module of TX-AH-Rx00Pxx series is also designed on the basis of TXW8301. This module provides longer distance (the open distance can reach more than 1200 meters) and better wall-penetrating capability than regular Wi-Fi, and supports multi-node, low power consumption, relay, roaming and other functions.

TXW8301 Wi-Fi SOC

- 32-bit CPU(up to192MHz)
- 704KB SRAM
- 750 to 950MHz Frequency
- 1/2/4/6 MHz RF bandwidth
- 150kbps~32.5Mbps
- USB 2.0 Host/Device
- SDIO 2.0

Applications

- NetBridge
- Module
- Smart Home
- Wireless Security Camera



For more information please visit: <https://txw.ac/chips/txw8301>