
Welcome to the W600 Documentation Center¶

This document is primarily maintained by Starlink Intelligence , and you can assist in editing it through GitHub .

important

If you are using it for the first time, it is strongly recommended that you first read the W600_AT Development Getting Started Guide , W600_SDK Development Getting Started Guide and W600 FAQ

The W600 series products are a series of UART-WiFi modules based on the Lianshengde W600 developed by Shenzhen Xingtong Zhilian Technology Co., Ltd. This series of modules supports the standard 802.11 b/g/n protocol and has a built-in complete TCP/IP protocol stack.

The W600_SoC chip integrates a Cortex-M3 core, built-in Flash, an RF transceiver front-end, a CMOS PA power amplifier, a baseband processor/media access control, and supports interfaces such as SDIO, SPI, UART, GPIO, I²C, PWM, I²S, and 7816. It supports multiple encryption and decryption protocols such as PRNG (Pseudo Random Number Generator)/SHA1/MD5/RC4/DES/3DES/AES/CRC.

The W600 is a SoC chip that supports multi-interface, multi-protocol wireless LAN IEEE802.11n (1T1R). It is suitable for IoT applications such as smart appliances, smart homes, wireless audio and video, smart toys, medical monitoring, and industrial control.

W600 Characteristics¶

1. Built-in 288KB SRAM, user-available RAM exceeds 160KB;
2. Built-in 1MB Flash, user firmware size can reach 450KB;
3. Support SWD debugging;
4. Support HT40, WiFi speed up to 150Mbps;
5. Integrates a high-speed SPI device controller with an operating clock range of 0~50MHz;
6. Integrates an I2C controller, supporting 100/400Kbps rate;
7. 2 complete UART interfaces, baud rate range 1200bps~2Mbps;
8. Integrated duplex I²S controller, supporting 32KHz~192KHz codec;

9. Integrated PWM controller, supports 5-channel PWM output or 2-channel PWM input;
10. Integrates 7816 interface, supports EVM2000 specification, and is compatible with serial port functions.
11. Integrated general encryption hardware accelerator, supporting multiple encryption and decryption protocols such as PRNG/ SHA1/ MD5/ RC4/ DES/ 3DES/ AES/ CRC;
12. Except for wlan.lib, other resources are completely open;
13. Use the keil development environment;
14. Support gcc development.

Selection Table¶

model	TW-01	TW-02	TW-03
Encapsulation	DIP-8	SMD-22	DIP-22
antenna	PCB antenna	PCB antenna	PCB antenna
size	18*17*2.8±0.2mm	15*17.3*3±0.2mm	24*16*3±0.2mm
board layer	2	2	2

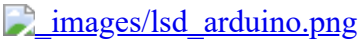
w600_wifi_soc

TW-01, compatible with ESP-01, 8Pin direct plug

TW-02, compatible with E2S, 11Pin gold finger

TW-03, compatible with ESP-12F, 22Pin stamp hole

TB-01, full IO output, supports one-click download



Arduino development board, full IO leads

Contact Us

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Next
