EWT226-900H30S

User Manual



Chengdu Ebyte Electronic Technology Co.,Ltd.

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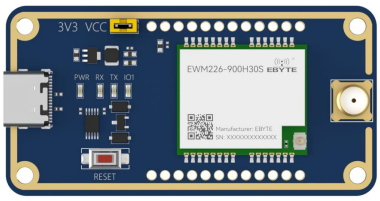
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1 Introduction

1.1 Brief Introduction

EWT226-900H30S is a test kit designed by EBYTE based on the EWM226-900H30S module, significantly reducing the user's development cycle. For detailed information on the EWM226-900H30S, please visit the official website to download the relevant documentation for this model.

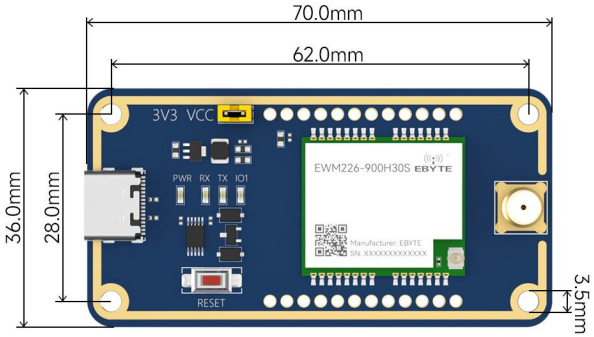


1.2 Features

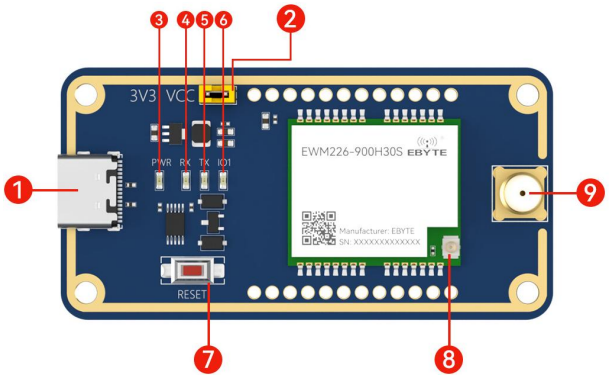
- Standard Type-C interface, plug-and-play;
- Extensive peripheral support for convenient use;
- Integrated high-performance CH340X chip;

2 Hardware Specifications

2.1 Product Dimensions and Interface Specifications



Tolerance value: x.x±0.2mm

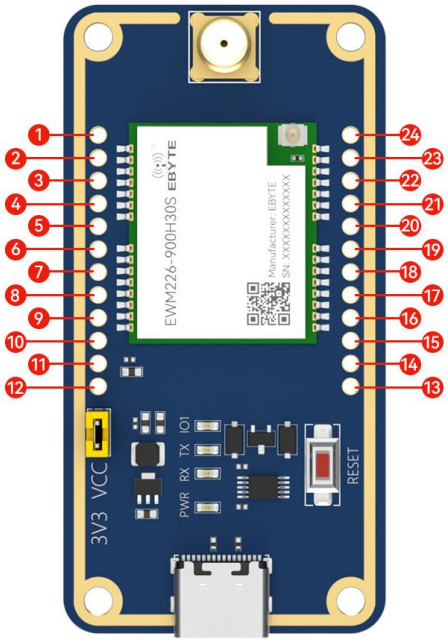


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No	Definition	Instruction	Note
1	Type-C	DC 5.0V Power Supply and Communication Interface	Standard Type-C interface, plug-and-play
2	VCC	Module VCC Power Supply Jumper	Default power supply: DC 3.3V
3	PWR	Power Indicator Light	Power supply is normal, indicator light stays on
4	RX	Serial Receive Indicator	Indicator light flashes during serial port reception
5	TX	Serial Transmit Indicator	Indicator light flashes during serial port transmission
6	IO1	RXD1 Buffer Empty Status Indicator	RXD1 buffer non-empty status indicator: lit indicates non-empty, unlit indicates empty. The size of each serial data packet transmitted must not exceed 1000 bytes.
7	RESET	Reset Button	-
8	IPEX	IPEX1 Antenna Interface	-
9	SMA-K	SMA-K Antenna Interface	-

2.2 Pin Definitions



EWT226-900H30S

No	Pin Name	Pin orientation	Description
1	TXD2	-	Empty foot, must be suspended in midair
2	RXD2	-	Empty foot, must be suspended in midair

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3	NRST	Input	Module reset pin triggers reset at a low level, requiring a pull-down time exceeding 100 microseconds.
4	IO1	Output	The RXD1 buffer is an empty state indicator pin, where a high level indicates an empty state and a low level indicates a non-empty state. The size of each serial data packet transmitted must not exceed 1000 bytes.
5	IO2	Output	Master-Slave Module Synchronization Indicator Pin Outputs a 1Hz square wave signal upon synchronization
6	LED_TX	Output	Serial transmission indicator pin: Outputs a high level when sending data, low level when idle.
7	LED_RX	Output	Serial reception indicator pin: Outputs a high level when receiving data, low level when idle.
8~10	VCC	Input	Module Power Interface, DC 3.0~3.6V
11~13	GND	-	Power Ground
14	SWDIO	-	Unused Pin, Must Remain Floating
15	SWCLK	-	Unused Pin, Must Remain Floating
16	GND	-	Power Ground
17	CONFIG	Input	Mode Configuration Pin: Low level enters configuration mode, high level enters data transmission mode
18	1PPS	Input	1PPS Input Pin
19	TXD1	Output	Serial Port Output Pin
20	RXD1	Input	Serial Port Input Pin
21	IO3	-	Unused Pin, must be left floating
22	IO4	-	Unused Pin, must be left floating
23	RSV	-	Unused Pin, must be left floating
24	GND	-	Power Ground

3 Common problems

3.1 Unsatisfactory transmission distance

- Temperature, humidity, and co-channel interference can increase communication packet loss rates;
- Ground absorption and reflection of radio waves result in poor test performance near the ground;
- Seawater strongly absorbs radio waves, leading to poor test results near the coast;
- Metal objects near the antenna or placement within a metal enclosure cause severe signal attenuation;
- At room temperature, power supply voltage below the recommended value reduces output power proportionally to the voltage drop;
- Using an antenna poorly matched to the module or an antenna with inherent quality issues.

3.2 Modules are fragile

- Please check the power supply to ensure that it is between the recommended supply voltages, if it exceeds the maximum value it will cause permanent damage to the module;

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- Please check the power supply stability, the voltage can not be substantial frequent fluctuations;
- Please ensure that the installation and use process anti-static operation, high-frequency device electrostatic sensitivity;
- Please ensure that the installation and use of the process of humidity should not be too high, part of the components for humidity-sensitive devices;
- If there is no special demand is not recommended to be used at too high or too low a temperature.

3.3 BER is too high

- Near the same frequency signal interference, away from the source of interference or modify the frequency and channel to avoid interference;
- Poor power supply may also cause garbled code, be sure to ensure the reliability of the power supply;
- Extension cords, feeder cords of poor quality or too long, can also cause high BER.

Revision history

Version	Date	Description	Issued by
1.0	2025-11-29	Initial version	Bin

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