EWT76-2G4M10S1A User Manual



Chengdu Ebyte Electronic Technology Co.,Ltd.

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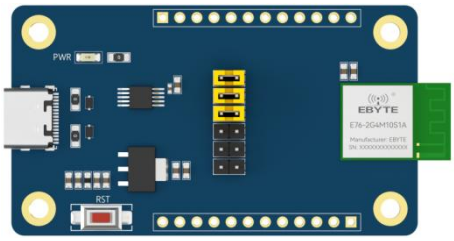
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1. Overview

1.1 Introduction

The EWT76-2G4M10S1A is a test kit designed by Ebyte based on the E76-2G4M10S1A module, which can significantly reduce the development cycle for users. For detailed information about the E76-2G4M10S1A, please visit the official website to download the relevant materials for this model.



EWT76-2G4M10S1A

1.2 Features

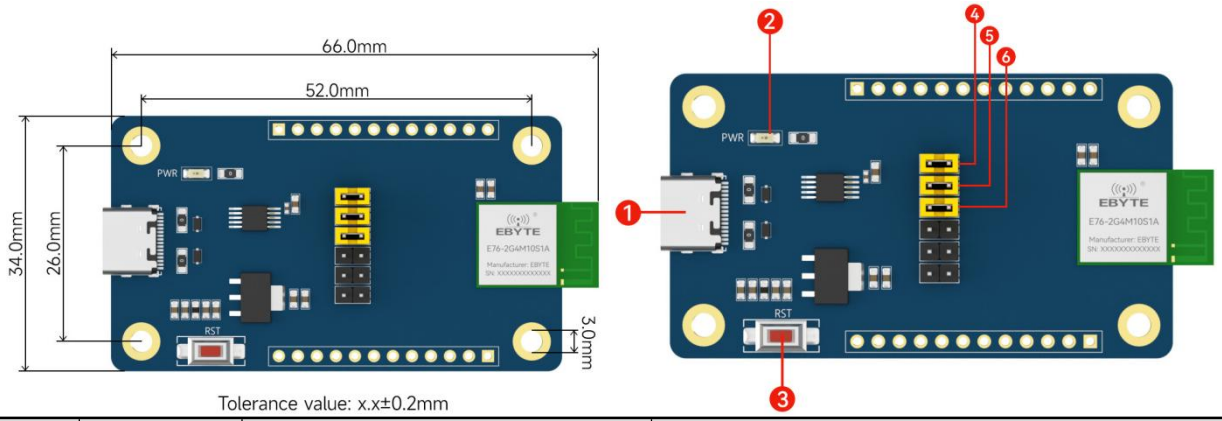
- Standard Type-C interface, plug-and-play;
- Multiple peripherals, easy to use;
- Integrated high-performance CH340X chip.

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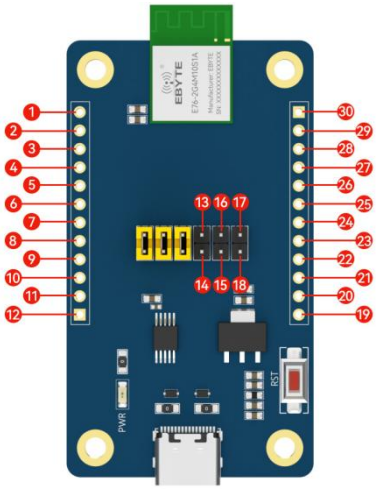
2. Hardware Description

2.1 Dimensions and Interface Definitions



Pin No.	Definition	Direction	Note
1	Type-C	DC 5.0V power supply and communication interface	Standard Type-C interface, plug-and-play
2	PWR	Power indicator light	The power is normal, and the indicator light stays on.
3	RST	Reset button	-
4	VCC	Module power supply jumper	DC 3.3V
5	PC02	Module TXD jumper	-
6	PC03	Module RXD jumper	-

2.2 Pin Definitions



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Pin No.	Pin Name	Direction	Description
1	PA00	Input/Output	Configurable General Purpose Input/Output
2	PB00	Input/Output	Configurable General Purpose Input/Output
3	PB01	Input/Output	Configurable General Purpose Input/Output
4	PB02	Input/Output	Configurable General Purpose Input/Output
5	PB03	Input/Output	Configurable General Purpose Input/Output
6	PA01	Input/Output	Program Debug/Download Port SWCLK
7	PA02	Input/Output	Program Debug/Download Port SWDIO
8	PA03	Input/Output	Configurable General Purpose Input/Output
9	PA04	Input/Output	Configurable General Purpose Input/Output
10	PA05	Input/Output	Configurable General Purpose Input/Output
11	PA06	Input/Output	Configurable General Purpose Input/Output
12	PA07	Input/Output	Configurable General Purpose Input/Output
13	PD03	Input/Output	Configurable General Purpose Input/Output
14	PA08	Input/Output	Configurable General Purpose Input/Output
15	PD02	Input/Output	Configurable General Purpose Input/Output
16	PD01	Input/Output	Configurable General Purpose Input/Output
17	PC00	Input/Output	Configurable General Purpose Input/Output
18	PD00	Input/Output	Configurable General Purpose Input/Output
19	PC01	Input/Output	Configurable General Purpose Input/Output
20	PC04	Input/Output	Configurable General Purpose Input/Output
21	PC05	Input/Output	Configurable General Purpose Input/Output
22	PC06	Input/Output	Configurable General Purpose Input/Output
23	PC07	Input/Output	Configurable General Purpose Input/Output
24	NC	-	No Connection
25	NC	-	No Connection
26	NC	-	No Connection
27	GND	-	Power ground
28	PB04	Input/Output	Configurable General Purpose Input/Output
29	GND	-	Power Ground
30	GND	-	Power Ground

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3. FAQ

3.1 Transmission Distance Is not Ideal

- Temperature, humidity, and co-channel interference can lead to an increased communication packet loss rate;
- Ground absorption and reflection of radio waves result in poor test performance when close to the ground;
- Seawater strongly absorbs radio waves, leading to poor performance in tests conducted near the seashore;
- If there are metal objects near the antenna or it is placed inside a metal casing, the signal attenuation will be extremely severe;
- When the power supply at room temperature is lower than the recommended voltage, the lower the voltage is, the lower the transmission power is;
- Poor matching between the antenna and the module or problems with the quality of the antenna itself.

3.2 Module Is Easily Damaged

- Please check the power supply and ensure it is within the recommended voltage range. Voltage higher than the peak will lead to a permanent damage to the module;
- Please check the stability of the power supply and ensure the voltage should not fluctuate significantly or frequently;
- Please ensure anti-static operations during installation and use, as high-frequency components are sensitive to static electricity;
- Please ensure that the humidity is not too high during installation and use, as some components are humidity-sensitive;
- Unless there are special requirements, it is not recommended to use it at excessively high or low temperatures.

3.3 High Bit Error Rate

- If there is interference from a co-channel signal nearby, move away from the interference source or change the frequency or channel to avoid the interference;
- Poor power supply may also cause garbled characters, so it is essential to ensure the reliability of the power supply;
- Poor quality or excessive length of extension lines or feeder cables can also lead to a high bit error rate.

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Revision History

Version	Revision Date	Revision Notes	Reviser
1.0	2026-01-09	Initial version	Bin

About Us

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