EWT04-2G4M10S1AX Product Specifications



Chengdu Ebyte Electronic Technology Co.,Ltd.

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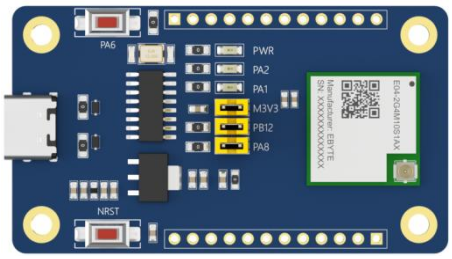
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Chapter 1 Overview

1.1 Product Introduction

EWT04-2G4M10S1AX is Ebyte is based on the E04-2G4M10S1AX module design of test suites,It can significantly reduce the user's development cycle. For detailed information about E04-2G4M10S1AX, please visit the official website to download this model related information.



EWT04-2G4M10S1AX

1.2 Features

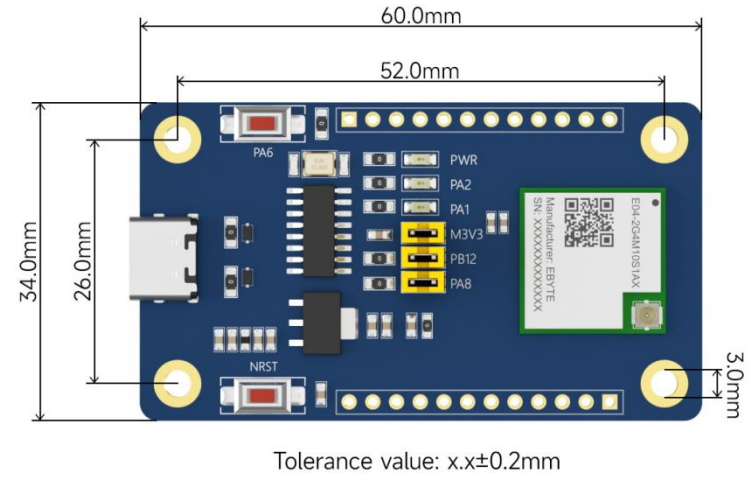
- Standard Type-C interface, plug and play;
- Rich peripherals and easy to use;
- Integrated high-performance CH340G chip;
- Supports IPEX 1st generation antenna interface.

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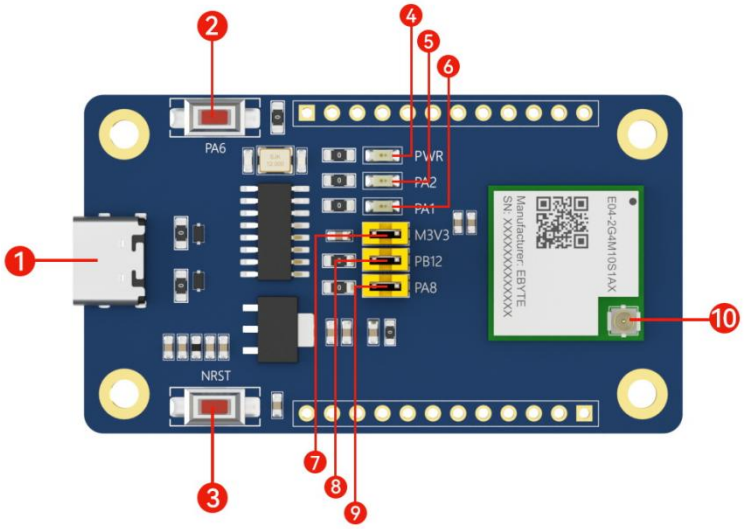
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Chapter 2 Hardware Description

2.1 Product size and interface definition



Tolerance value: x.x±0.2mm



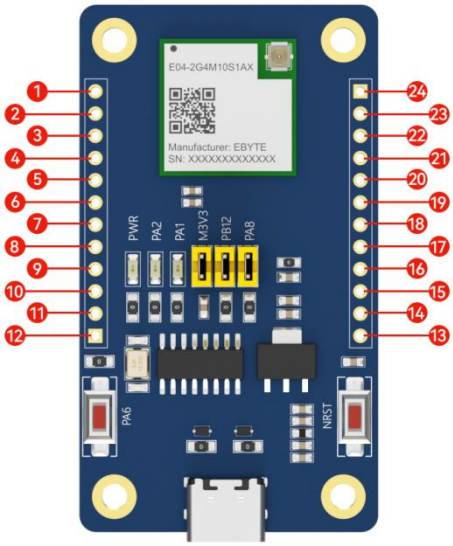
Serial number	definition	illustrate	Remark
1	Type-C	DC 5.0V power supply and communication interface	Standard Type-C interface, plug and play
2	PA6	Customizable buttons	Connect the module PA6 pin
3	NRST	Reset button	-
4	PWR	Power indicator	The power supply is normal and the indicator light is always on.
5	PA2	Custom indicator lights	Connect the module PA2 pin, low level lights up

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6	PA1	Custom indicator lights	Connect the module PA1 pin, low level lights up
7	M3V3	Module power supply jumper	DC 3.3V
8	PB12	Module TXD jumper	-
9	PA8	Module RXD jumper	-
10	IPEX	IPEX 1st generation socket	Antenna interface

2.2 Pin Definition



EWT04-2G4M10S1AX

Pin number	Pin Name	Pin direction	describe
1	PB12	Input/Output	Serial port TXD pin
2	PA8	Input/Output	Serial port RXD pin
3	PA7	Input/Output	Configurable general IO ports
4	PA6	Input/Output	Configurable general IO ports
5	PA5	Input/Output	Configurable general IO ports
6	PA2	Input/Output	Configurable general IO ports
7	PA1	Input/Output	Configurable general IO ports
8	PA0	Input/Output	Configurable general IO ports
9	GND	-	Power ground
10	GND	-	Power ground
11	3.3V	Output	3.3V output pin of the baseboard
12	GND	-	Power ground
13	PB9	Input/Output	Configurable general IO ports
14	PB8	Input/Output	Configurable general IO ports
15	PB4	Input/Output	Configurable general IO ports
16	PB3	Input/Output	Configurable general IO ports

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17	PA15	Input/Output	Configurable general IO ports
18	GND	-	Power ground
19	M3.3V	enter	3.3V input power supply pin of the module
20	PA14	Input/Output	Configurable general IO ports
twenty one	PA13	Input/Output	Configurable general IO ports
twenty two	PA12	Input/Output	Configurable general IO ports
twenty three	PB15	Input/Output	Configurable general IO ports
twenty four	NRST	enter	Reset lead Pin, low level reset

Chapter 3 Frequently Asked Questions

3.1The transmission distance is not ideal

- Temperature, humidity, and co-channel interference will increase the communication packet loss rate.;
- The ground absorbs and reflects radio waves, so the test results are poor near the ground.;
- Seawater has a strong ability to absorb radio waves, so the test results at the seaside are poor.;
- If there are metal objects near the antenna or the antenna is placed in a metal shell, the signal attenuation will be very serious.;
- The power supply voltage is lower than the recommended value at room temperature. The lower the voltage, the lower the power output.;
- The antenna used does not match the module well or the antenna itself may have quality issues.

3.2 Module is easily damaged

- Please check the power supply to ensure that it is within the recommended power supply voltage. Exceeding the maximum value may cause permanent damage to the module.;
- Please check the power supply stability, the voltage should not fluctuate greatly and frequently;
- Please make sure Anti-static operation during installation and use, electrostatic sensitivity of high-frequency components;
- Please ensure that the humidity is not too high during installation and use, as some components are humidity sensitive.;
- If there is no special requirement, it is not recommended to use it at too high or too low temperatures.

3.3The bit error rate is too high

- There is interference from the same frequency signal nearby.Stay away from interference sources or change the frequency or channel to avoid interference.interference;
- An unsatisfactory power supply may also cause garbled characters, so the reliability of the power supply must be ensured;
- Poor quality or excessive length of extension cables or feeders can also cause high bit error rates.

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Revision History

Version	Revision Date	Revision Notes	Maintainer
1.0	2025-09-29	Initial version	Bin

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