

EBYTE E32-170T30D

EBYTE E32-170T30D LoRa Module User Manual

Comprehensive instructions for the EBYTE E32-170T30D LoRa wireless serial port module.

1. INTRODUCTION

The EBYTE E32-170T30D is a high-performance LoRa wireless serial port module designed for long-range, low-power data transmission. Utilizing LoRa spread spectrum technology, this module offers enhanced anti-interference capabilities and extended communication distances compared to traditional FSK modulation. It operates in the 160-173.5MHz frequency band with a maximum transmission power of 1W (30dBm), enabling communication distances up to 8 kilometers.

This module features a UART interface, making it compatible with 3.3V and 5V systems (4.75-5.5V recommended for optimal performance). Its industrial-grade design ensures stable operation in harsh environments, with a temperature range of -40°C to 85°C. The E32-170T30D is suitable for various applications including smart home systems, industrial control, remote meter reading, and IoT solutions.

2. PRODUCT OVERVIEW

The E32-170T30D module integrates a power amplifier (PA) and low noise amplifier (LNA) to achieve its 30dBm transmitting power, ensuring stability and extended range. It incorporates industrial-grade crystal oscillators for precision and consistency. Key features include data encryption and compression for secure and efficient data transfer.

2.1 Key Features

- **Frequency Range:** 160~173.5MHz
- **Transmission Power:** 21~30dBm (1W), software adjustable
- **Communication Distance:** Up to 8 km (line of sight)
- **Interface:** UART (TTL level)
- **Power Supply:** 3.3V~5.2V (4.75-5.5V recommended)
- **Data Rate:** 0.3kbps~9.6kbps (air data rate)
- **Operating Temperature:** -40°C to 85°C
- **Antenna Connector:** SMA
- **Technology:** LoRa spread spectrum for strong anti-interference and penetration
- **Security:** Data encryption and compression
- **Compliance:** FCC, CE, CCC standards

2.2 Module Components



Figure 1: Top view of the EBYTE E32-170T30D LoRa module, showing the EBYTE logo, model number, QR code, CE, RoHS, and FCC ID markings, along with the SMA antenna connector.



Figure 2: Illustration of the EBYTE UART DIP module's SMA connector with accompanying nuts and washers, designed for secure installation.

2.3 LoRa Technology Advantages

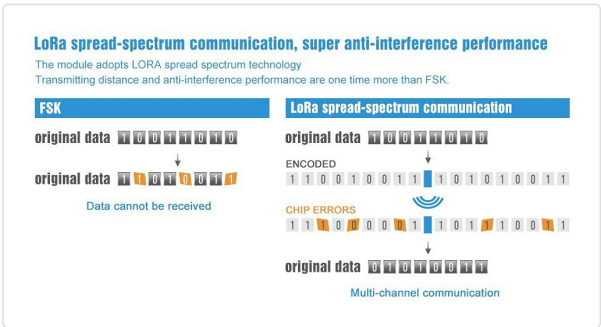


Figure 3: Comparison illustrating how LoRa spread spectrum communication provides superior anti-interference performance and data recovery compared to FSK, even with chip errors.

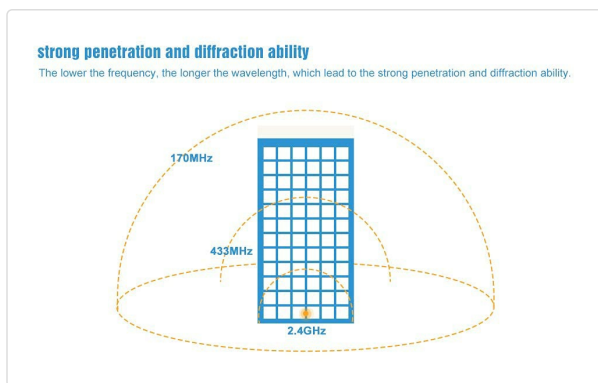


Figure 4: Diagram showing the strong penetration and diffraction ability of lower frequencies (like 170MHz) through obstacles compared to higher frequencies (433MHz, 2.4GHz).

3. SPECIFICATIONS

Parameter	Value
Frequency Range	160~173.5MHz
Transmission Power	21~30dBm (1W)
Communication Distance	Up to 8 Kilometers
Interface	UART
Power Supply	3.3V~5.2V (4.75-5.5V recommended)
Air Data Rate	0.3kbps~9.6kbps
Operating Temperature	-40°C to 85°C
Antenna Type	SMA (Radio Antenna)
Number of Channels	1 (Configurable)
Manufacturer	Ebyte

4. SETUP

Proper setup is crucial for the optimal performance of your E32-170T30D LoRa module. Follow these steps for initial configuration:

- Power Supply Connection:** Connect the module to a stable power source within the 3.3V to 5.2V range. For best performance, a power supply between 4.75V and 5.5V is recommended. Ensure correct polarity (VCC and GND).
- UART Interface Connection:** Connect the module's UART pins (TX, RX) to your microcontroller or host device's corresponding UART pins. Ensure the logic levels are compatible (TTL).
- Antenna Connection:** Attach a suitable 170MHz SMA antenna to the module's SMA connector. Ensure the connection is secure. The provided nuts and washers (refer to Figure 2) should be used for a stable physical installation.
- Configuration (Optional):** The module's parameters (e.g., frequency, air data rate, power) can be configured via software. Refer to the detailed datasheet for specific commands and software tools.

Note: Always ensure the power supply is disconnected before making or changing any physical connections to prevent damage to the module or host device.

5. OPERATING INSTRUCTIONS

Once the E32-170T30D module is correctly set up, it can be used for wireless data transmission and reception. The module operates as a transparent serial port, meaning data sent to its UART input will be transmitted wirelessly, and data received wirelessly will be output via its UART pins.

- **Data Transmission:** To transmit data, send your data stream to the module's UART TX pin from your host device. The module will automatically handle the LoRa modulation and wireless transmission.
- **Data Reception:** When the module receives wireless data, it will output the data stream via its UART RX pin to your host device.
- **Parameter Configuration:** The module's operating parameters, such as frequency channel, air data rate, and transmission power, can be adjusted via specific commands sent through the UART interface. Consult the official EBYTE datasheet for a comprehensive list of commands and their usage.
- **LoRa Advantages:** Leverage the LoRa spread spectrum technology for its long-range capabilities and robust anti-interference performance, especially in environments with obstacles or noise.
- **Data Security:** The module supports data encryption and compression. For details on how to utilize these features, refer to the module's technical documentation.

5.1 Application Scenarios

The E32-170T30D module is versatile and can be applied in numerous scenarios:



Figure 5: Examples of module applications in smart home environments and for remote meter reading.



Figure 6: Examples of module applications in smart agriculture

6. MAINTENANCE

The E32-170T30D LoRa module is designed for industrial-grade reliability and requires minimal maintenance. Adhering to the following guidelines will help ensure its longevity and consistent performance:

- **Environmental Conditions:** Operate the module within its specified temperature range of -40°C to 85°C. Avoid exposure to extreme humidity, corrosive gases, or direct sunlight.
- **Physical Handling:** Handle the module with care to prevent physical damage. Avoid bending or stressing the PCB or connectors.
- **Cleaning:** If necessary, gently clean the module with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Antenna Care:** Ensure the antenna is always securely connected and free from damage. A damaged or improperly connected antenna can significantly reduce performance.
- **Firmware Updates:** Periodically check the official EBYTE website (www.cdebyte.com) for any available firmware updates that may improve performance or add new features.

7. TROUBLESHOOTING

If you encounter issues with your E32-170T30D module, consider the following troubleshooting steps:

- **No Communication:**
 - Verify power supply voltage and polarity.
 - Check UART connections (TX, RX, GND) and ensure they are correctly wired to your host device.
 - Confirm UART baud rate, parity, data bits, and stop bits settings match between the module and host device.
 - Ensure the antenna is properly connected.
- **Short Communication Range:**
 - Check antenna type and ensure it is suitable for the 170MHz band and in good condition.
 - Verify transmission power settings; ensure it is set to the desired level (up to 30dBm).
 - Minimize obstacles between transmitting and receiving modules. Line-of-sight provides the best range.
 - Ensure both modules are operating on the same frequency channel and air data rate.
- **Intermittent Data Loss:**
 - Check for sources of electromagnetic interference (EMI) near the modules.
 - Ensure the power supply is stable and free from noise.
 - Consider adjusting the air data rate; lower data rates generally offer better reliability over longer distances or in noisy environments.
- **Encryption/Compression Issues:**

The module supports data encryption and compression. If these features are not functioning as expected, ensure that the configuration settings for these features are correctly applied and understood. Refer to the detailed technical documentation for implementation specifics.

8. WARRANTY AND SUPPORT

The EBYTE E32-170T30D LoRa module is manufactured by Ebyte. For specific warranty terms and conditions, please refer to the purchase agreement or contact your vendor. General support and technical documentation

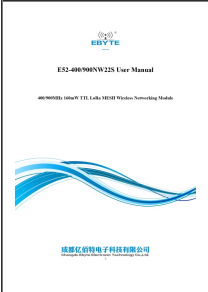
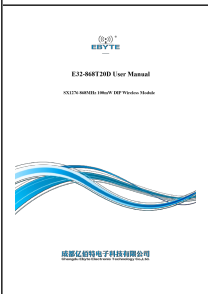
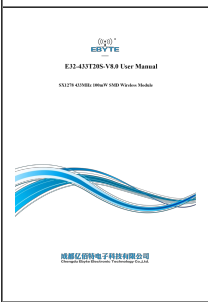
can be found on the official EBYTE website.

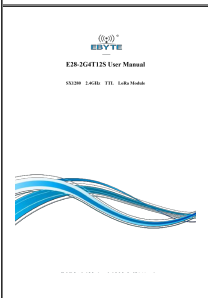
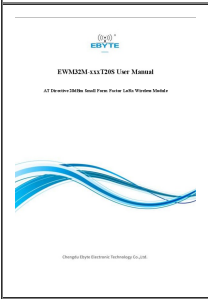
- **Manufacturer:** Ebyte
- **Official Website:** www.cdebyte.com
- **Compliance:** The module strictly follows design standards of FCC, CE, CCC, meeting various RF certification requirements.

For technical inquiries or further assistance, please visit the EBYTE website or contact their customer support channels.

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Related Documents - E32-170T30D

	EBYTE E52-400/900NW22S LoRa MESH Wireless Networking Module User Manual Comprehensive user manual for the EBYTE E52-400/900NW22S LoRa MESH wireless networking module, operating on 400/900MHz bands with 160mW power. Covers specifications, AT commands, hardware design, and application scenarios.
	E32-868T20D User Manual: SX1276 868MHz 100mW DIP Wireless Module Comprehensive user manual for the EBYTE E32-868T20D wireless serial port module. Details include its SX1276 LoRa technology, 868MHz frequency, 100mW transmission power, DIP package, specifications, operating modes, command formats, hardware design considerations, and frequently asked questions. Suitable for IoT and industrial applications.
	E32-433T20S-V8.0 User Manual: SX1278 433MHz 100mW SMD Wireless Module This user manual provides detailed information on the EBYTE E32-433T20S-V8.0, a 433MHz 100mW SMD wireless module utilizing the SX1278 LoRa RF chip. It covers specifications, features, operating modes, hardware design, and troubleshooting for developers and integrators.

	E32-915T30D LoRa E32-915T30D EBYTE SX1276 LoRa 915MHz 1W TTL/UART LoRa PA+LNA
	E28-2G4T12S LoRa Module User Manual - EBYTE This user manual provides detailed information on the EBYTE E28-2G4T12S 2.4GHz TTL LoRa module, covering its features, technical specifications, operation modes, command formats, hardware design considerations, and production guidance.
	EWM32M-xxxT20S User Manual: AT Directive 20dBm LoRa Wireless Module Comprehensive user manual for the EBYTE EWM32M-xxxT20S series LoRa wireless module. Details specifications, features, AT commands, operating modes, hardware design, and troubleshooting for IoT applications.



E32-170T30D User Manual
SX1278 170MHz 1W DIP Wireless Module



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SX1276/SX1278 Wireless Modules
E32 Series

User M

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Version	Date	Description	Issued by
1.00	2017/11/10	Initial version	huaw
1.10	2018/01/15	Added SX1276/SX1278	huaw
1.20	2018/01/15	Added SX1276/SX1278/SX1279	huaw
1.30	2018/01/15	Added SX1276/SX1278/SX1279/SX1280	huaw

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2018 01 Added 868T30S 915T30S 20 15 868T20S 915T20S 400T20S 22 868T20D info rf e32 868t20s micros pl
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1.00	2017/11/10	Initial version	huaw
1.10	2018/01/15	Added SX1276/SX1278	huaw
1.20	2018/01/15	Added SX1276/SX1278/SX1279	huaw
1.30	2018/01/15	Added SX1276/SX1278/SX1279/SX1280	huaw

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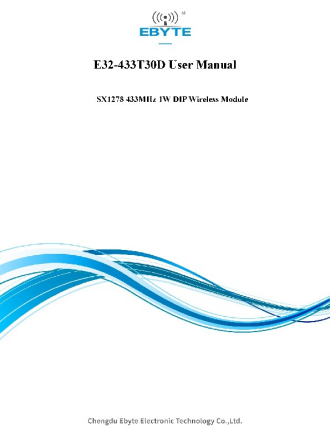
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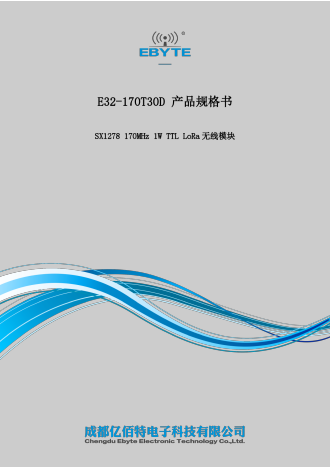
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E32-400T20S User Manual
SX1278 430MHz 100mW SMD Wireless Module

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E52-400/900NWxxS User Manual

400/900MHz 160mW/1W TTL LoRa MESH Wireless Networking Module

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E32-433T33S User Manual

SX1278 433MHz 2W TTL LoRa Wireless Module

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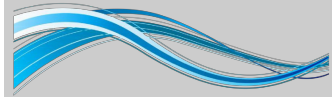
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SX1278-433 MHz 2.8W TTL LoRa беспроводной модуль



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E32-900T30S User Manual

SX1276 868/915MHz 1W TTL LoRa Wireless Module



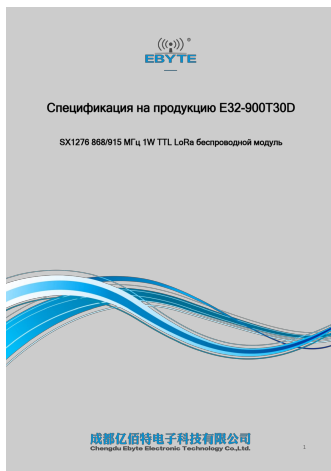
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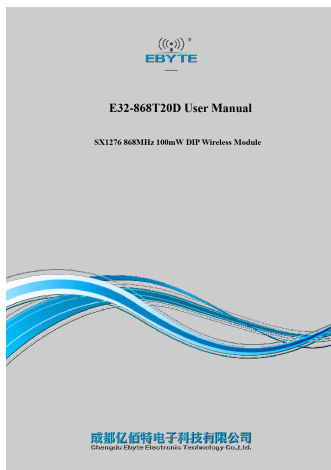


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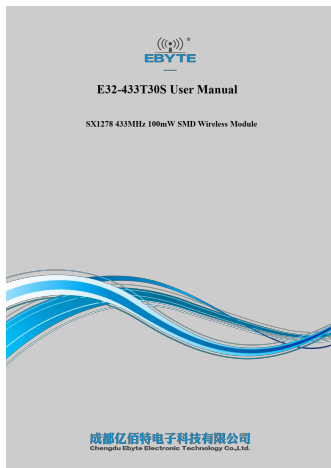
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[E32-868T20D User Manual: SX1276 868MHz 100mW DIP Wireless Module](#)

Comprehensive user manual for the EBYTE E32-868T20D wireless serial port module. Details include its SX1276 LoRa technology, 868MHz frequency, 100mW transmission power, DIP package, specifications, operating modes, command formats, hardware design considerations, and frequently asked questions. Suitable for IoT and industrial applications.

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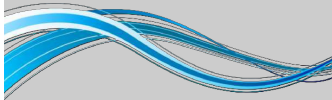
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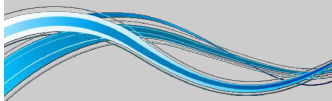
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E32-915T30S User Manual SX1276 915MHz 1W SMD Wireless Module Chengdu Ebyte Electronic Technology C ... 30 E32-433T20S2T SX1278 433M 20 E32-868T30D SX1276 868M 30 E32-915T30D SX1276 915M 30 **E32-170T30D** SX1278 170M 30 E32-868T20D SX1276 868M 20 E32-915T20D SX1276 915M 20 E32- 43...

lang:en **score:26** filesize: 1.33 M page_count: 22 document date: 2022-01-05



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E32-433T33D User Manual

SX1278 433MHz 2W TTL LoRa Wireless Module



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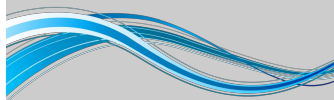
E32-433T33D User Manual SX1278 433MHz 2W TTL LoRa Wireless Module Chengdu Ebyte Electronic Technol ... domly welding the module will have the chance of damaging it permanently. 11 E32 series Model No. **E32-170T30D** E32-433T20D E32-400T20S E32-433T30D E32-433T30S E32-900T20D E32-900T20S E32-900T30D E32-...

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E32-433T20S-V8.0 User Manual

SX1278 433MHz 100mW SMD Wireless Module



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[E32-433T20S-V8.0 User Manual: SX1278 433MHz 100mW SMD Wireless Module](#)

This user manual provides detailed information on the EBYTE E32-433T20S-V8.0, a 433MHz 100mW SMD wireless module utilizing the SX1278 LoRa RF chip. It covers specifications, features, operating modes, hardware design, and troubleshooting for developers and integrators.

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E32-900T30S User Manual

SX1276 868/915MHz 1W TTL LoRa Wireless Module



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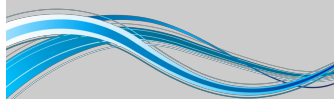
E32-900T30S User Manual SX1276 868/915MHz 1W TTL LoRa Wireless Module Contents Disclaimer and Copy ... n. 11 Related Models Product number carrier frequenc y Hz transmit power dBm Test distance km **E32-170T30D** 170M 30 8 air rate bps 0.3k - 9.6k E32-433T20DC 433M 20 E32-433T20S1 433M 20 ...

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E32-433T33D User Manual

SX1278 433MHz 2W TTL LoRa Wireless Module



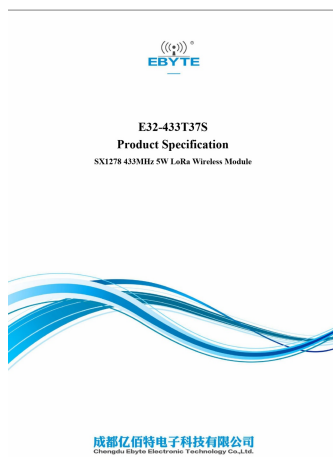
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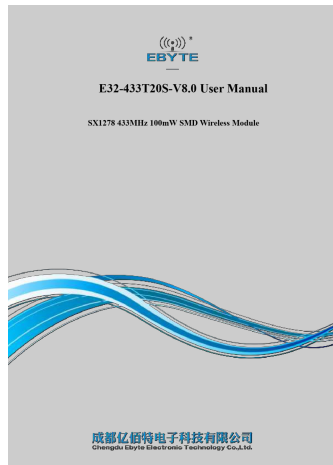
E32-433T33D User Manual SX1278 433MHz 2W TTL LoRa Wireless Module Chengdu Ebyte Electronic Technol ... domly welding the module will have the chance of damaging it permanently. 11 E32 series Model No. **E32-170T30D** E32-433T20D E32-400T20S E32-433T30D E32-433T30S E32-900T20D E32-900T20S E32-900T30D E32-...

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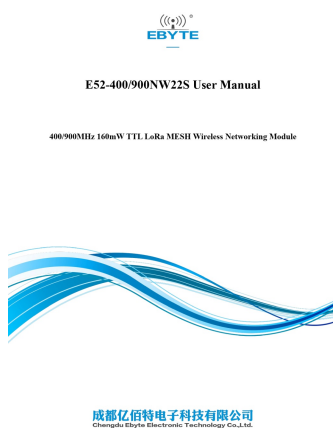
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E32-433T37S Product Specification SX1278 433MHz 5W LoRa Wireless Module Chengdu Ebyte Electronic Technology Co.,Ltd. 10.2 Reflow Soldering Curve E32-433T37S UserManual .Related models Product Model **E32-170T30D** E32-433T20DC E32-433T20S1 E32-433T20S2T E32-400T20S E32-433T30D Carrier Frequency Hz 17...
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[EBYTE E32-433T20S-V8.0 User Manual: SX1278 433MHz LoRa Wireless Module Guide](#)

This user manual provides comprehensive details on the EBYTE E32-433T20S-V8.0 wireless module, a 433MHz LoRa spread spectrum device utilizing the SX1278 RF chip. It covers specifications, operating modes, hardware design, and application notes for developers and integrators.

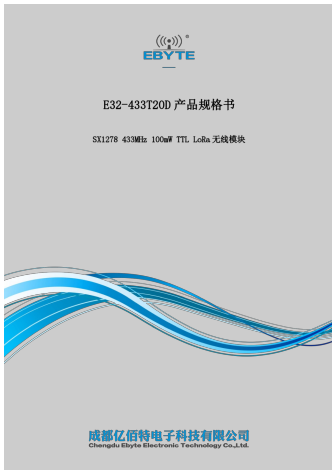
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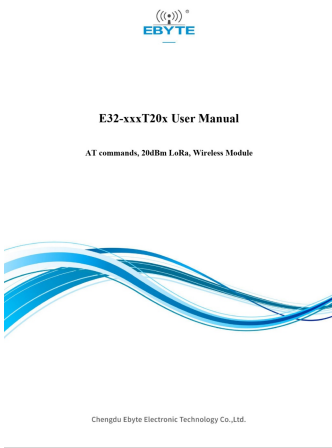
[EBYTE E52-400/900NW22S LoRa MESH Wireless Networking Module User Manual](#)

Comprehensive user manual for the EBYTE E52-400/900NW22S LoRa MESH wireless networking module, operating on 400/900MHz bands with 160mW power. Covers specifications, AT commands, hardware design, and application scenarios.

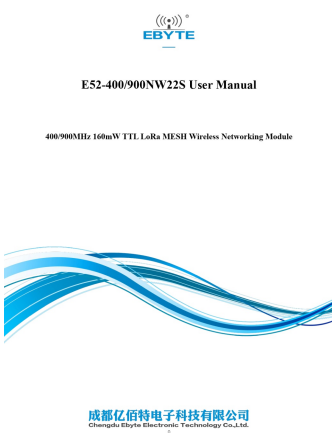
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E32-433T20D User Manual

SX1278 433MHz 100mW TTL LoRa Wireless Module



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E32-xxxT30x Product Specification

AT Command 30dBm LoRa Wireless Module



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E52-400/900NW22S User Manual

400/900MHz 160mW TTL LoRa MESH Wireless Networking Module



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Ebyte Electronic Tech ... 2-433T20D User Manual Product number carrier frequenc y Hz transmit

power dBm Test distance km **E32-170T30D** 170M 30 8 air speed bps 0.3k - 9.6k E32-433T20D

433M 20 E 32-400T20S 433/470M ...

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E32-xxxT30x Product Specification AT Command 30dBm LoRa Wireless Module Chengdu

Ebyte Electronic T ... byte Electronic Technology Co.,Ltd. E32-T Series User s Manual XIII

Related Models Product Model **E32-170T30D** E32-433T20DC E32-433T20S1 E32-433T20S2T

E32-400T20S E32-433T30D E32-433T30S E32-868T20D ...

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E52-400/900NW22S User Manual 400/900MHz 160mW TTL LoRa MESH Wireless Networking

Module 0 Chengdu E ... Electronic Technology Co.,Ltd.. E52-400/900NW22S User Manual XIII.

Related Models Product model **E32-170T30D** E32-433T20DC E32-433T20S1 E32-433T20S2 T

E32-400T20S E32-433T30D E32-433T30S E32-868T20D...

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E32-xxxT30x Product Specification
AT Command 30dBm LoRa Wireless Module



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E32 xxxT30x Product Specification LCSC strictly comply with the FCC CE ROHS and other domestic foreign design specifications to meet RF related certifications meet 1811012318 Chengdu Ebyte Elec Tech 433T30D C97351 datasheet lcsc |||

E32-xxxT30x Product Specification AT Command 30dBm LoRa Wireless Module Chengdu Ebyte Electronic T ... byte Electronic Technology Co.,Ltd. E32-T Series User s Manual XIII Related Models Product Model **E32-170T30D** E32-433T20DC E32-433T20S1 E32-433T20S2T E32-400T20S E32-433T30D E32-433T30S E32-868T20D ...

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EWM32M-xxxT20S User Manual
AT Directive 20dBm Small Form Factor LoRa Wireless Module



Chengdu Ebyte Electronic Technology Co., Ltd.

[EWM32M-xxxT20S User Manual: AT Directive 20dBm LoRa Wireless Module](#)

Comprehensive user manual for the EBYTE EWM32M-xxxT20S series LoRa wireless module. Details specifications, features, AT commands, operating modes, hardware design, and troubleshooting for IoT applications.

lang:en **score:20** filesize: 1.61 M page_count: 30 document date: 2025-07-11



EWD95M-xxxNW22 (xxx) 用户手册
400/900MHz 22dBm RS485/RS232 LoRa MESH 无线组网 DTU



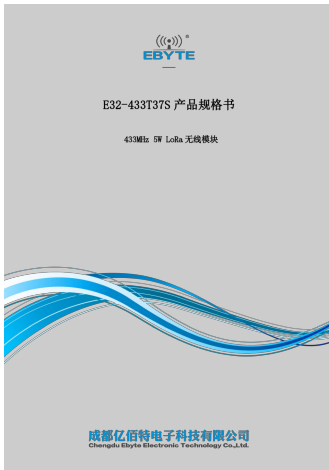
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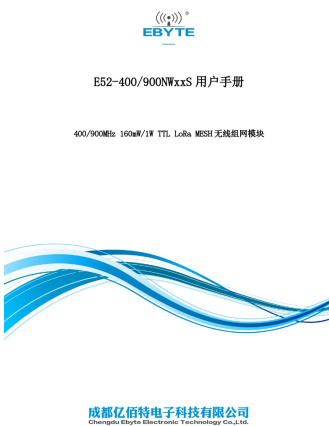


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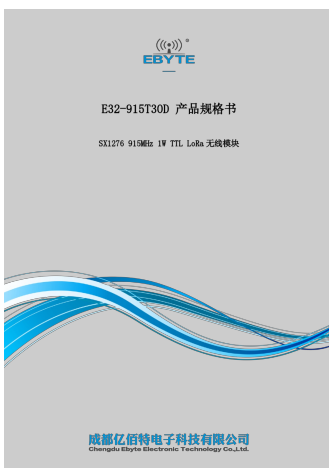


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E32-433T30S E32-868T20D ...

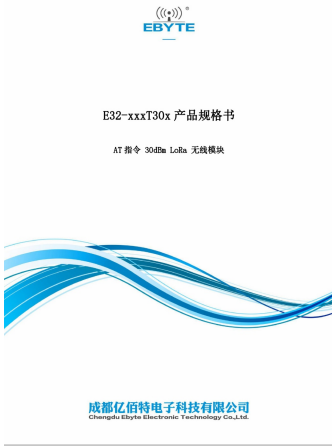
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E32-915T30D EBYTE SX1276 LoRa 915MHz 1W TTL/UART
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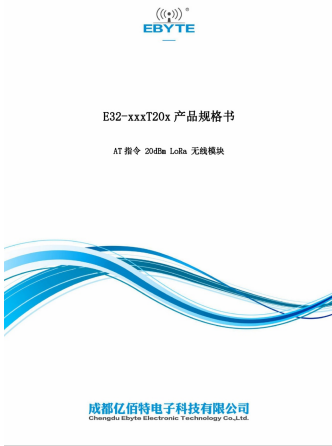
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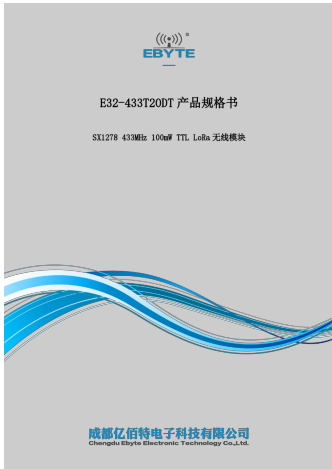
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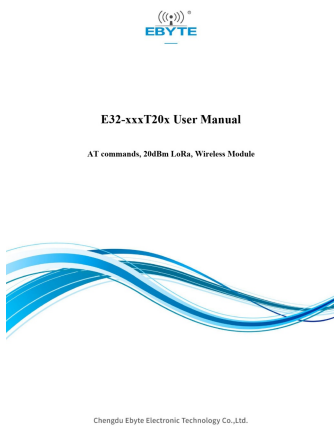
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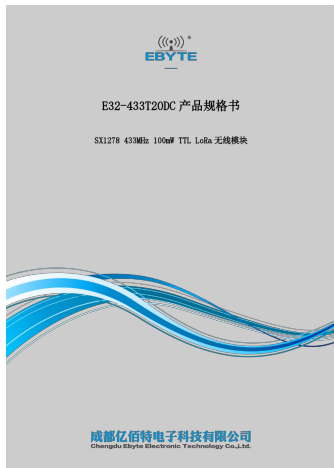
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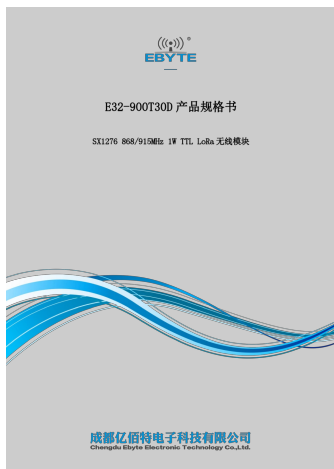
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E32-xxxT20x User Manual AT commands, 20dBm LoRa, Wireless Module 1 Chengdu Ebyte Electronic Techno ... 29 Chengdu Ebyte Electronic Technology Co.,Ltd. E32-xxxT20x User Manual 13 Related models PN **E32-170T30D** E32-433T20DC E32-433T20S1 E32-433T20S2 T E32-400T20S E32-433T30D Carrier frequenc y Hz ...
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E32-868T30D 产品规格书

SX1276 868MHz 1W TTL LoRa 无线模块



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E32-915T20D 产品规格书

SX1276 915MHz 100mW TTL LoRa 无线模块



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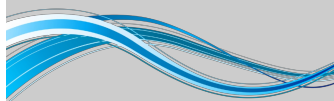
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E32-915T30D 产品规格书

SX1276 915MHz 1W TTL LoRa 无线模块



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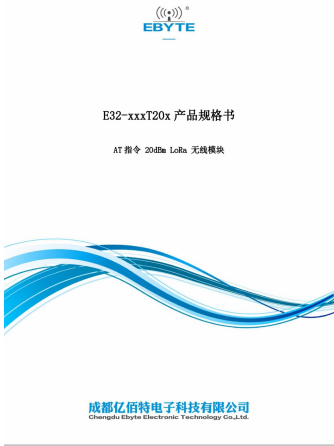
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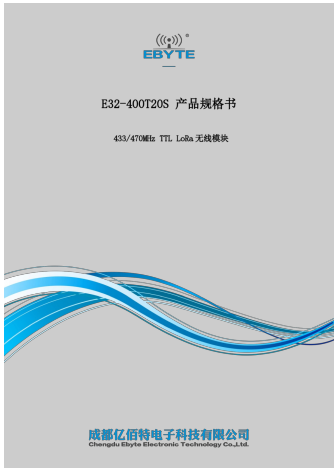
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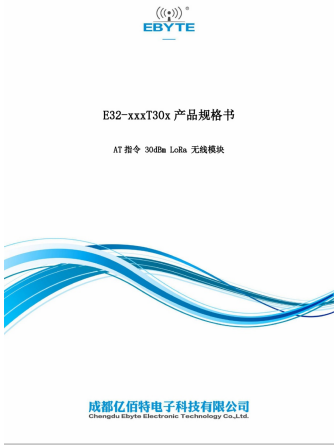
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