

图纸发布类别：[正式归档图纸]

成品尺寸	65*93mm
展开图尺寸：	455*93mm
公差：	±1mm

Communication Stick
(2.4G)

Instruction Manual

TSW-T411

Declaration of Toxic and Hazardous Substances in Electronic Products

Part Name	Toxic and hazardous substances or elements					
	Lead Pb	Hg Hg	Cadmium Cd	Hexavalent chromium Cr (VI)	PBBs PBB	Polybrominated diphenyl ethers PBDE
Metal parts	X	○	○	○	○	○
Plastic parts	○	○	○	○	○	○
Circuit board	X	○	○	○	○	○
Power (if available)	X	○	○	○	○	○
Appendix	X	○	○	○	○	○

FCC Regulations:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.


Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment should be installed and operated with minimum distance 20cm from your body.

Declaration Of ConformityEuropean Notice

CE

Hereby, Ningbo Lingzhu Technology CO.,Ltd, declares that this product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.




This product must not be disposed of as normal household waste, in accordance with EU directive for waste electrical and electronic equipment(WEEE-2012/19/EU) . Instead, it should be taken to the point of sale or municipal recycling point for disposal.


This table is prepared according to the provisions of SJ/T11364-2014

○ Indicates that the content of the toxic and hazardous substance in all homogeneous materials of the part is below the limit requirement specified in GB/T26572-2011

X : Indicates that the content of the toxic and hazardous substance in at least one homogeneous material of the part exceeds the limit requirement specified in GB/T26572-2011

 The numbers in this label indicate that the product's environmental protection use period under normal use is 10 years, and some components may also have an environmental protection use period mark, and the environmental protection use period is subject to the number in the mark.

Certificate:

CE FC RoHS 

Product description

1.1 Product composition

Unpacking, the product list includes 1 Wi-Fi stick, 1 instruction manual.

NOTE: If the stick has an internal antenna, there is no external antenna.

1.2 Product features


- Reliable performance
 - Wi-Fi, Bluetooth dual-channel communication capability, priority Wi-Fi channel work
 - The Wi-Fi stick complies with IP65 protection level
- Multiple LED display status
 - Based on multiple indicator LEDs, it is easy to perceive the working status of the Wi-Fi stick
- Easy to install
 - Insert the Wi-Fi stick into the Com port of the device, and tighten the nut to complete the installation
- Simple configuration
 - Support Bluetooth or Access Point mode to config, easy to realize device networking
 - Support App side, button unbinding

1.3 Usage Scenarios

The communication stick is mainly used on the inverter or energy storage battery equipment to realize the data interaction between the equipment and the system.

2.0 Product information

2.1 Basic Information

Product type	TSW-T411
product name	Communication Stick
Exterior	
Input	DC input (5V - 12V) Power 1W
Wireless protocol	Wi-Fi+Bluetooth
Working humidity	5%-90%RH (non-condensing)
Operating temperature	-20℃ — +85℃
Degree of protection	IP65
Size	100 * 48 * 33 mm(without antenna)
Weight	63g

2.2 Hardware specification

Wi-Fi connectivity	<ul style="list-style-type: none">802.11B/G/N20Channel 1-14@2.4GHz (CH1-11 for US/CA, CH1-13 for EU/UK)Support WEP/WPA/WPA2/WPA2 PSK (AES) security mode
Bluetooth	Bluetooth 4.2 Low Energy
Electrical Interface	RS485
mechanical interface	USB aviation connector

2.3 Software function

Key	Press and hold the button for 5 seconds, and after the three lights of STE, COM, and NET are on and off for 3 times, the Wi-Fi stick is unbound and in the state of waiting for network distribution
Number of connected devices	1
Communication parameters	Default 9600bps, 8 data bits, no stop bit, 1 parity bit
Data Collection Interval	The default configuration is 5 minutes
Firmware upgrade	Firmware supports OTA upgrade
Download App	Enter the App name in the Android or Apple store to download the App

2.4 Pin definition

Communication stick (female) front view

1VCC

2A

3B

4GND

1# pin	VCC
2#pin	A
3#pin	B
4#pin	GND

USB connector

Key

Antenna

Communication Stick Status

Local communication status

Network communication status

NET

COM

3.0 Installation guide

3.1 Download App

According to the mobile phone operating system, find Smart Life in the Android or Apple store, download the App, register a personal account and log in.

Smart Home

Smart Home

13°C

100%

App Store

Get it on Google play

3.2 Install the communication stick

Power off the device, unscrew the protective cap of the 4-core COM communication port of the device, align the gap, and plug in the communication stick. Tighten the nut to make sure the communication stick is in good contact with the device. When disassembling, please loosen the nut, and then pull out the communication stick. Do not directly turn the body of the communication stick with force, so as not to damage the communication stick

Smart Home

Smart Home

13°C

100%

App Store

Get it on Google play

3.3 Communication stick config and login network

1) Turn on the Bluetooth on the mobile phone, enter the App, and select Add Device

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App Store

Get it on Google play

2) App automatically discovers the device to be added, click Add

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3) Enter the router SSID and password to be connected

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4) Confirm, the App will be added automatically, and after completion, enter the device panel to view the data

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100%

App Store

Get it on Google play

4.0 Communication stick LED working status

STE	COM	NET	Functional description	Troubleshooting
Flashing	Off	Off	Just powered on or waiting for network distribution	normal status

Flashing

Flashing

Flashing

normal status

Always on

Flashing

any state

The communication stick is reading device data

normal status

Always on

any state

Flashing

The communication stick is communicating with the cloud

normal status

Always on

Off

any state

Abnormal communication between the communication stick and the device

1.Please reinsert the communication stick
2.Replace the communication stick to judge whether it is a communication stick problem or a device problem

Flashing

any state

Flashing

Abnormal communication between the communication stick and the cloud

1.Please check whether the router has power
2.Please check whether the external network of the router is normal

Flashing

Off

Flashing

Abnormal communication between the communication stick and the device, and the cloud

Please refer to the above suggestions to troubleshoot

Warranty Policy

The after-sales service is strictly in accordance with the relevant laws, and the after-sales three guarantees service is implemented. The service content is as follows:

1. Within 7 days from the date of your receipt, if there is a performance failure of this product, you can enjoy the return or exchange service for free
2. Within 8 to 15 days from the date of your receipt, if the product has a performance failure, you can enjoy free repair or replacement service
3. Within 12 months from the date of your receipt, if there is a performance failure of this product, you can enjoy free maintenance services

Non-warranty policy

1. Unauthorized maintenance, misuse, collision, negligence, abuse, liquid ingress, accident, modification, incorrect use of non-product accessories, or tearing, altering labels, anti-counterfeiting marks
2. The validity period of the three guarantees has exceeded
3. Damage caused by force majeure
4. Other damages or failures caused by problems other than product design, technology, manufacturing, quality, etc.

版本	物料编号	变更者	变更时间	版本升级原因描述
1.0				原始版本

材质	105g铜版纸	客户	产品名称	Wi-Fi 无线通信棒 (2.4G)	物料名称	TSW-T411-Wi-Fi 无线通信棒 (2.4G)-说明书-英文	设计	大川
印刷色	单黑						审核	伯安(董新铨)
加工工艺	风琴7折页, 正反印刷		型号	TSW-T411	物料编号		时间	20230605
接合方式	/							