2.5G Smart Gateway

Quick Operation Manual

Version 1.0

I. Preparation

1. Contact your operator or network administrator for the broadband Internet-access configuration information.
2. Check the cabling from the device to the upstream equipment and from the device to the downstream equipment, making sure the RJ45 connectors are crimped to the T568B standard and the cables are 8-core all-through.
3. Use a network cable to connect the device's WAN1 port to the upstream network equipment, and connect LAN1–LAN6 to the ports of the downstream equipment.
4. Use the supplied power cord to connect to the device's power connector and power on the device.

II. Device Ports & Cable Connection Guide

[Figure: Device front/rear view showing PWR power indicator, SYS system indicator, Reset (factory-reset) button, broadband entry, 2.5G WAN port (to upstream network), WAN/LAN convertible port, default LAN port, USB port (storage, printer, 4G USB network card), 2.5G LAN port (to downstream network), and power connector]

III. Interfaces, Buttons & Indicators

Interfaces / Buttons

Interface / Button	Description
WAN1	2.5G wide-area-network port, used to connect to the Internet.
WANx / LANx	2.5G local-area-network port, used to connect a switch, computer or other network device.
LAN1	10/100/1000 Mbps auto-negotiating LAN port by default, used to connect a switch, computer or other network device. WAN/LAN switching can be configured by logging in to the device management page.
Reset	Factory-reset button. While the device is powered on, press and hold for more than 6 seconds; the port indicators briefly light up and then go off, and the device is restored to factory defaults.
USB	USB port, can connect storage devices, printers and 4G USB network cards.

Indicators

Indicator	Description
PWR	Solid green: device powered normally. Off: device power abnormal.
SYS	Blinking green: device working normally. Off: device working abnormally.
Port indicators	2.5G port: when connected, the right yellow indicator blinks if negotiated at 2.5G; the left green indicator blinks if negotiated at 1G; the indicator is off at 10/100M or when not connected. 1000M port: blinking green when connected; off when not connected.

IV. Whole-Network Configuration

1. Use a network cable to connect your computer to the device's LAN1–LAN6 ports. If a PoE switch and wireless APs are connected to the device's LAN ports, you may connect to the Wi-Fi named “WiFi-2.4G” or “WiFi-5.8G” (no password by default).
2. In your computer browser's address bar, enter “192.168.20.1” (without quotes) and press Enter to open the device management page.
3. Click the PC icon, log in with the password, enter the default password “admin” (without quotes), and click [Log In] to enter the device management page.
4. On first login you enter the whole-network overview page. Click the [Whole-Network Configuration] icon button in the top-right corner to enter the whole-network configuration management page. The device automatically discovers all devices on its current network. If the number of devices shown in the “My Network” list is correct, click [Start Configuration]. If the device count is incorrect, check the power and cabling of the downstream devices, confirm everything is correct, click [Rediscover], and once the count is correct click [Start Configuration] to enter the configuration management page.
5. Following the on-screen prompts, modify the project name and device name (the internal-network domain name needs no change by default). The project name and device name are used for later maintenance and identification—fill them in according to your actual situation.
6. Select the appropriate Internet-access method based on your broadband access type and fill in the related information. Change the Wi-Fi name to your liking, turn on [Encryption], and enter the Wi-Fi password.
7. For the security of your device, we recommend changing the device password. After the changes, click [Finish Configuration]; the device applies the new settings, after which you can access the Internet using the new Wi-Fi name and password and enjoy high-speed Wi-Fi.

V. Custom Configuration

If your network is more complex—for example you need to change the LAN address, have a multi-WAN scenario, or require multi-SSID wireless configuration—follow the guidance below.

1. LAN Configuration

On the whole-network overview page, click [Interface Management] on the left to enter the interface-settings page, then click [LAN Settings] - [LAN Settings] at the top to enter the LAN-settings management page. Click [Configure] in the operations of the interface numbered “1” in the LAN list to enter the LAN1 configuration page (see Figure 1).

The default management IP address of the device is 192.168.20.1. If the upstream device is also on this subnet, you must change the IP subnet (e.g., 192.168.30.1); otherwise a conflict will prevent Internet access. After configuration, click [Next] to enter the DHCP-settings page (no

change needed by default), then click [Finish]. After changing the IP address you must log in to the device management page again using the new IP address.

[Figure: Figure 1 – LAN1 configuration page (Port Settings / DHCP Settings: IP address 192.168.20.1, subnet mask 255.255.255.0, IP range 192.168.20.1–192.168.20.254, DHCP service, start address 192.168.20.10, end address 192.168.20.240, lease time, DHCP gateway, etc.)]

2. WAN Configuration

Click [Interface Management] on the left to enter the interface-settings page, then click [WAN Settings] - [WAN Settings] at the top to enter the WAN-settings management page.

Single-line mode is the default. Select the number of WAN lines according to your actual scenario, click [Configure] for each interface in the WAN list, and configure according to your actual network environment (see Figure 2). When finished, click [Confirm] to complete the WAN configuration. For multi-WAN access, select the line for the corresponding WAN port under interface switching.

Line name: a custom name, usually for quick later identification of the line.

Connection type: supports Off, Broadband (PPPoE) dial-up, Dynamic IP, Static IP and LAN. Internet access usually involves the three options Broadband dial-up, Dynamic IP and Static IP—consult your network administrator or broadband provider for the correct parameters. The “LAN” option is used for port-mirroring / packet-capture environments and generally does not need to be configured.

Broadband dial-up: a scenario where a broadband account and password must be set to dial up for Internet access.

Dynamic IP: a scenario where the IP is obtained automatically without any settings.

Static IP: a scenario where specific IP-address information must be set to access the Internet.

Bandwidth settings: the default value is “0”, meaning no limit. Select an appropriate bandwidth using the label buttons or enter it manually. Accurate bandwidth settings allow more reasonable traffic allocation for multi-WAN load balancing under high-load scenarios.

Line detection: enabled by default. In multi-WAN scenarios it implements line load balancing and line switching based on the detection results.

Advanced parameters: no settings needed by default. In multi-WAN scenarios with broadband lines from different carriers, configure the lines correctly.

[Figure: Figure 2 – WAN1 configuration page (Group name, Line name, Connection type = Dynamic IP, Bandwidth settings ADSL/Fiber presets, Line detection, Advanced settings)]

3. Wireless Configuration

Click [Wireless Management] on the left to enter the AP-list management page; the device automatically discovers all wireless APs and lists them. Click [Template Management] - [2.4G Wireless Settings] at the top to enter the 2.4G wireless-settings page, then click [Add]. Enter a custom “Template name.” In the “SSID1” field of the SSID list, click [Configure], enter a custom

“SSID,” turn on [Encryption], and enter a custom “Wi-Fi password.” When done, click [Confirm], then click [Confirm] again on the Add page. A new entry for the template you just configured appears in the template list. Click [Bind AP], select the APs you want to take effect on the “Please select the APs to bind” page, and click [Confirm]. If the device supports 5.8G, add a 5.8G template following the same steps. After configuration, the SSID of the corresponding APs on the AP-list page changes to the SSID in the template.

VI. Binding to the Smart Management Cloud Platform

In your browser, enter “http://yun.tianwifi.net” (without quotes), register an account, and log in to the smart management cloud platform. Click [Network Scenarios] at the top to enter the scenario-topology management page, click [Scenario Management] on the left to enter the scenario-management page, and click [Add Scenario]. Following the on-screen prompts, bind the device to your cloud account using one of three methods: “one-click discovery, serial-number addition, or WeChat mini-program QR-code scan.” The device serial number can be viewed by logging in to the device management page and clicking [Smart Cloud Management] on the left to enter the smart-cloud-management page.

[Figure: WeChat QR code – “Scan with WeChat to use the mini-program” (TianWifi)]

Once the system is set up correctly, you can experience the device's powerful features. If you have any questions, please call the agent or dealer that provided the device; we are committed to providing attentive, professional service.

VII. Names and Content of Hazardous Substances in the Product

Component	Pb	Hg	Cd	Cr(VI)	PBB	PBDE
PCBA						
Power adapter						
Metal structural parts						
Plastic structural parts						
Paper accessories						
Cables						
Components (incl. modules)						

[Translator's note: the O / X status of each substance per component was blank in the source file. Please fill in the O / X marks according to the original document.]

This table is compiled in accordance with SJ/T 11364.

O: Indicates that the content of this hazardous substance in all homogeneous materials of the part is below the limit specified in GB/T 26572.

X: Indicates that the content of this hazardous substance in at least one homogeneous material of the part exceeds the limit specified in GB/T 26572.

Note: Parts containing hazardous substances do so because, given the current global level of technical development, substitution of those substances is not yet achievable.

VIII. Environmental Protection Instructions

1. This product meets the environmental requirements of the “Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products” and its supporting regulations and standards.

2. Within the environmental-protection use period, this product will not leak or release hazardous substances in a way that affects consumer health—please use it with confidence.
3. When the product is no longer used or has reached the end of its service life, please dispose of it in accordance with national regulations on the recycling and treatment of waste electrical and electronic products, handing the waste product to a local recycler with nationally recognized qualifications. The recycler shall handle parts containing hazardous substances reasonably in accordance with relevant national regulations, and shall not dispose of them arbitrarily.

The number inside the environmental-protection-use-period mark indicates that the product's environmental-protection use period under normal use is 10 years. Some parts may also carry their own environmental-protection-use-period mark, in which case the number on that mark prevails.

IX. Warranty Card

Friendly Reminder

1. The invoice is important evidence for later repairs—please keep it safe.
2. The warranty period is one year, calculated from the invoice date.
3. Products damaged due to improper use or storage by the user, local power supply exceeding standards, lightning strikes or other force-majeure factors are not covered by the warranty.

Item	Details
User name	
Purchase date	
Contact information	
Place of purchase	
Selling unit	
SN information	

Repair record: Problem / Solution / Technician

Certificate of conformity: QC PASS – Inspection: ____ Date: ____

IX. Three-Guarantee (Warranty) Certificate

Dear customer, thank you for choosing our gateway product. In accordance with the relevant provisions of the “Law of the People's Republic of China on the Protection of Consumer Rights and Interests,” our company provides the “three guarantees” (repair, replacement and refund) for consumers who purchase our products. To protect your legitimate rights, please read the following carefully:

1. The warranty period for our products is one year.
2. The warranty period is calculated from the date of purchase.
3. For functional quality faults not caused by human factors, users may obtain free repair at a designated service point within the warranty period by presenting the three-guarantee certificate and warranty card.
4. Within the three-guarantee period, losses suffered by consumers due to product defects may be remedied through three-guarantee service in accordance with these terms.
5. Our company reserves the right to adjust the relevant three-guarantee information, product functions and specifications.
6. If the above three-guarantee content conflicts with relevant national laws and regulations, the national regulations shall prevail.

Please note that the three guarantees do NOT cover any of the following:

1. Products beyond the valid three-guarantee period.
2. Faults caused by use, maintenance or storage not in accordance with the product instructions.
3. Faults caused by human factors such as unauthorized disassembly, dropping, liquid ingress, crushing/deformation, dampness or modification.
4. Faults caused by force majeure such as war, fire, earthquake, tsunami or lightning.
5. Damage caused during transport or installation.
6. Damage caused by disassembly by anyone other than an authorized three-guarantee repairer.
7. Damage caused by the use of unsuitable accessories (non-original accessories).
8. Faults caused by the network.
9. Unauthorized alteration of the three-guarantee certificate.