

User Guide

P20&P30 Functional Base

Model:P23CFB02 HVIN: WS



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- Every effort has been made to ensure the accuracy and completeness of the information in this user guide. However, errors or omissions may exist.
- LANDI reserves the right to modify product software, hardware or documentation without notice.
- Product details in this guide may differ from the actual product due to updates. Refer to the physical product for authoritative information.
- LANDI shall not be held liable for damages, malfunctions, data loss or accessory loss caused by operations not complying with instructions in this guide.

Use this Manual

Legend



Danger

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Warning

Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage, data loss, performance degradation, or unexpected results.



Notes

Indicates important information that helps make better use of the device and features.

Important Safety Information



Safety Rules

- **Power Supply**

- Use only provided LANDI power adapter.
- Maintenance restricted to authorized LANDI technicians.
- Connect to properly rated electrical outlet.
- Ensure outlet is easily accessible and meets local regulations.
- Disconnect adapter from electrical mains network to power off.

- **Environmental Restrictions**

- Avoid use in explosion-risk areas (chemical plants, fuel depots).
- Suspend use during thunderstorms.
- Use certified protective cover near fuel pumps.
- Avoid harsh environments with direct sunlight, high temperatures, humidity, or dust.
- Avoid use in extremely hot or cold environments such as near open flames or lit cigarettes.

- **Health and Safety**

- Avoid using near medical equipment.
- Consult healthcare providers regarding potential interference.



Usage Instructions

- **Base Security**

- Avoid applying pressure or placing items on the base.
- Avoid severe vibrations, shaking or impacts.

- **Abnormal Conditions**

If any of the following phenomena occur during work:

- Stop operation immediately.
- Cut off power supply.
- Promptly report to service provider when:
 1. Hearing sharp noises during operation
 2. Impurities or water enter base
 3. Unpleasant odors emit during operation

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1. Product Profile

1.1. Introduction

The P20&P30 Functional Base serves as a multifunctional docking station for P20/P30 series terminals, combining charging and communication capabilities in one device. It provides internet connectivity for the terminals and expands their functionality through additional ports including Ethernet, serial, and USB interfaces. Engineered to meet international standards, the base holds CE, FCC, and RoHS certifications, ensuring reliable and safe operation.

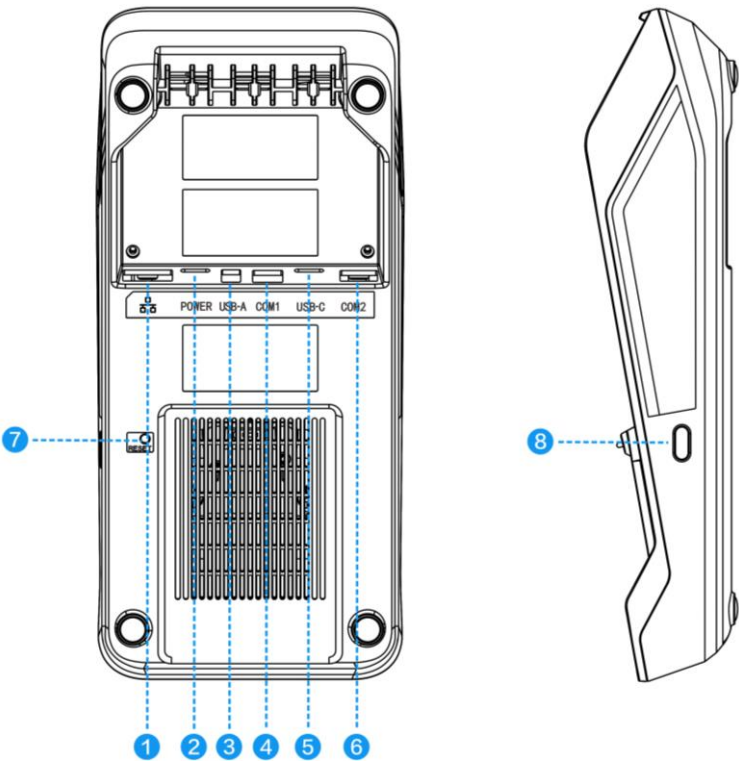
1.2. Unboxing Inspection

Upon opening, inspect the base for any signs of disassembly or transit damage. Check for:

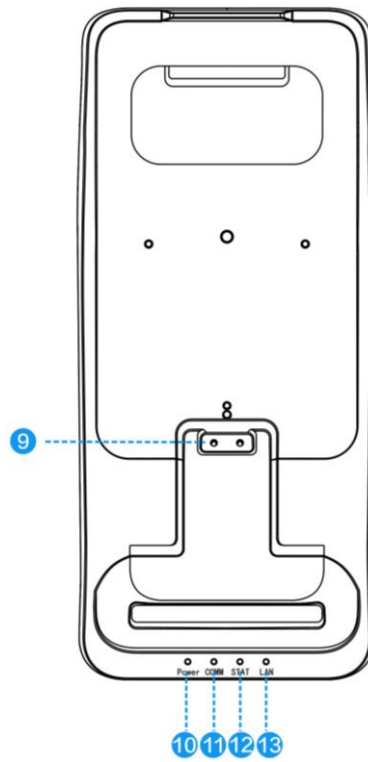
- Functional Base main unit
- Quick start guide

Remove all plastic packaging and retain the transit packaging for future transportation.

1.3. Overview



- | | | | |
|---|------------------------|---|-----------------------------|
| 1 | RJ45 Ethernet Port | 2 | USB Type-C Power Input Port |
| 3 | USB Type-A Port | 4 | RJ22 Serial Port |
| 5 | USB Type-C Device Port | 6 | RJ45 Serial Port |
| 7 | Reset Button | 8 | Association Button |



- | | | | |
|----|--|----|--|
| 9 | Charging Contact | 10 | Power Indicator |
| 11 | Association Indicator (COMM Indicator) | 12 | Terminal-to-Base Connection Indicator (STAT Indicator) |
| 13 | Ethernet Indicator (LAN Indicator) | | |

2. Product Technical Features

Power	USB Host Output: 5.0V DC, 0.5A Charging Output: 5.0V DC, 1.0A (1.5A when USB Host is inactive) Adapter: 100-240V AC, 50/60Hz (Input); 5.0V DC, 2.0A (Output)
Port	USB Type-C power port *1 RJ45 Ethernet port *1 RJ22 serial port *1 RJ45 serial port *1 USB Type-A HOST port supporting USB2.0 *1 USB Type-C DEVICE port supporting USB2.0 *1
Environment	Operating Temperature: 0°C to +40°C (32°F to 104°F) Storage Temperature: -20°C to +70°C (-4°F to 158°F) Operating Humidity: 10% to 90% (Non-condensing) Storage Humidity: 5% to 90% (At 40°C/104°F)
Dimension	206×97×47 mm
Weight	Net Weight: 184g Gross Weight: 228g
Operation Frequency	TX Frequency: 2412-2472 MHz (802.11 b/g/n HT20), 2422-2462 MHz (802.11 n HT40) RX Frequency: 2412-2472 MHz (802.11 b/g/n HT20), 2422-2462 MHz (802.11 n HT40) Max Transmit Power:
Power Indicator	Green: Base powered on Unlit: Base powered off
Ethernet Indicator	Green: Ethernet connected Unlit: No Ethernet
Other Indicators	COMM Indicator Solid Green: Base to be associated COMM Indicator Blinks Green: Base upgrading STAT Indicator Solid Green: Base associated and connected with P20\P30 STAT Indicator Blinks Green: Base associated but disconnected with P20\P30

3. Usage

3.1. Power Operations

1. Connect the power adapter to the base.
2. Insert the adapter plug into the main power outlet.
3. Verify power status:
 - Confirm the base's power indicator shows green
 - Wait 30 seconds for base startup, then verify the COMM indicator displays solid green

3.2. Charging P20/P30

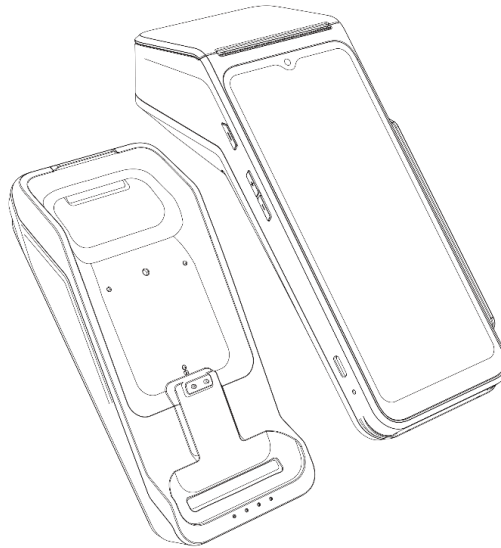
To charge the P20/P30 terminal, simply place it onto the base as the arrow below illustrates.



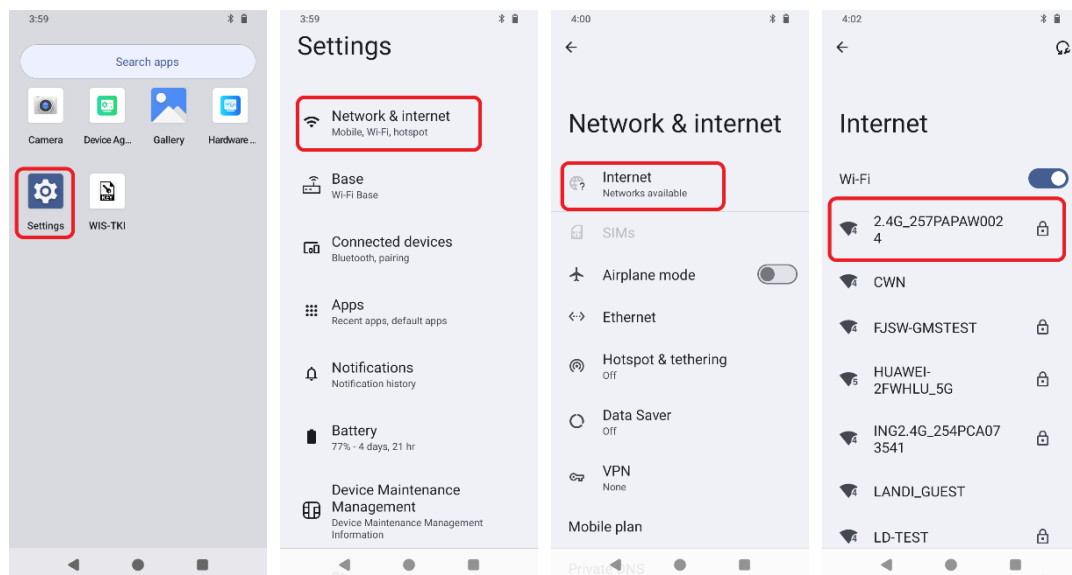
3.3. Base Setup and Configuration

3.3.1. Connecting P20/P30 to Base Wi-Fi

P20/P30 terminals can connect to the internet via the P20&P30 Functional Base.

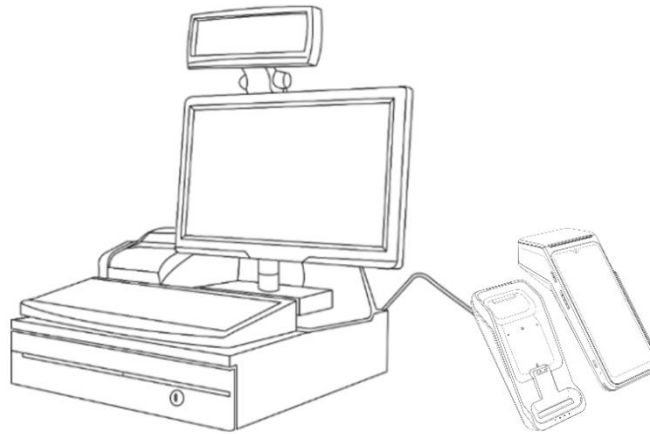


1. Power on the P20&P30 Functional Base and wait for 30 seconds.
2. Connect the base to Ethernet via the RJ45 port.
3. Locate SSID and Wi-Fi password on the base back label.
4. On P20/P30, navigate to **Settings > Network & internet > Internet** and connect to the corresponding SSID.



3.3.2. Terminal Association

The P20&P30 Functional Base adds Ethernet, serial, and USB ports to P20/P30 terminals, enabling access to terminal features through these extended connections.



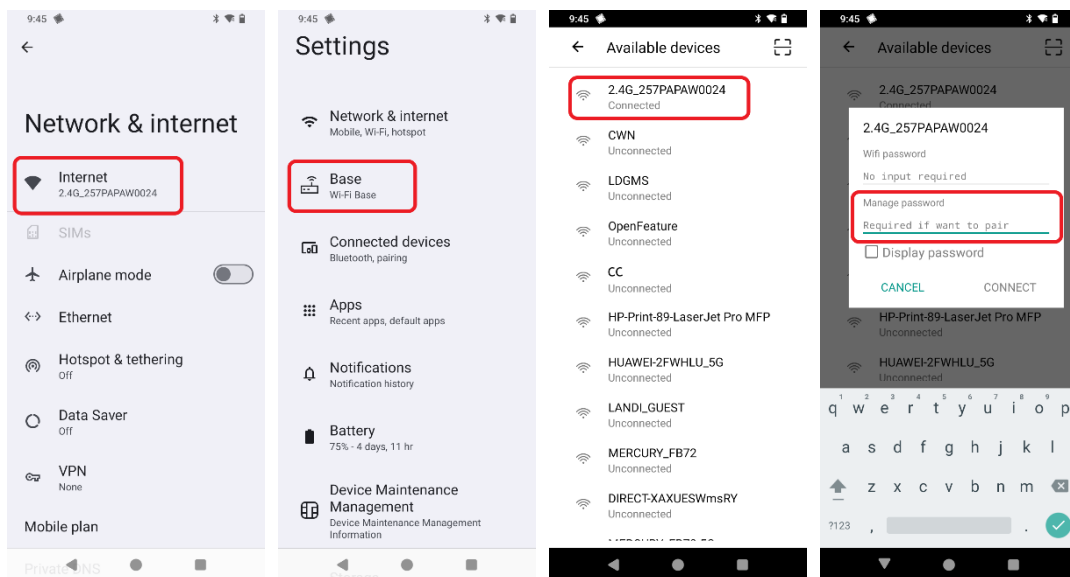
● Preparation

Check the COMM and STAT indicator lights after base startup (30 seconds).

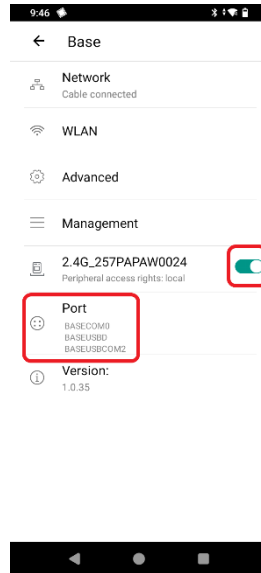
- Solid green COMM light indicates ready for association.
- Flashing or solid green STAT light indicates already associated. To associate with a new P20/P30, press and hold the association button for 15 seconds until the base restarts.

● Association Methods

1. Connect P20/P30 to base Wi-Fi.
2. Navigate to **Settings** > **Base**, select the SSID from **Available devices**, enter the Administrative Password on the base back label.

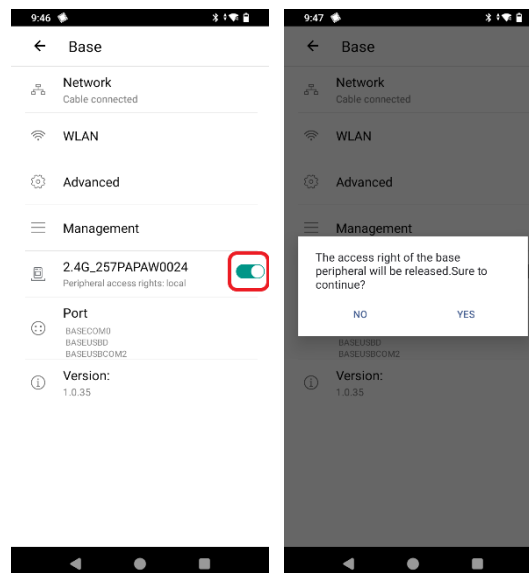


3. Enable the toggle switch next to **2.4G_xxxxxxx**. Available base ports will appear in the menu below.
4. Alternatively, use the scan icon in **Available devices** to scan the base label QR code for instant association.



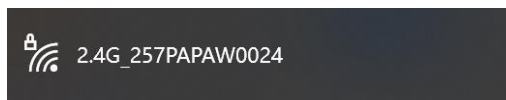
● Disassociation

1. Disable the toggle switch next to **2.4G_xxxxxxx** and confirm.
2. Base will return to unassociated state (COMM light unlit).

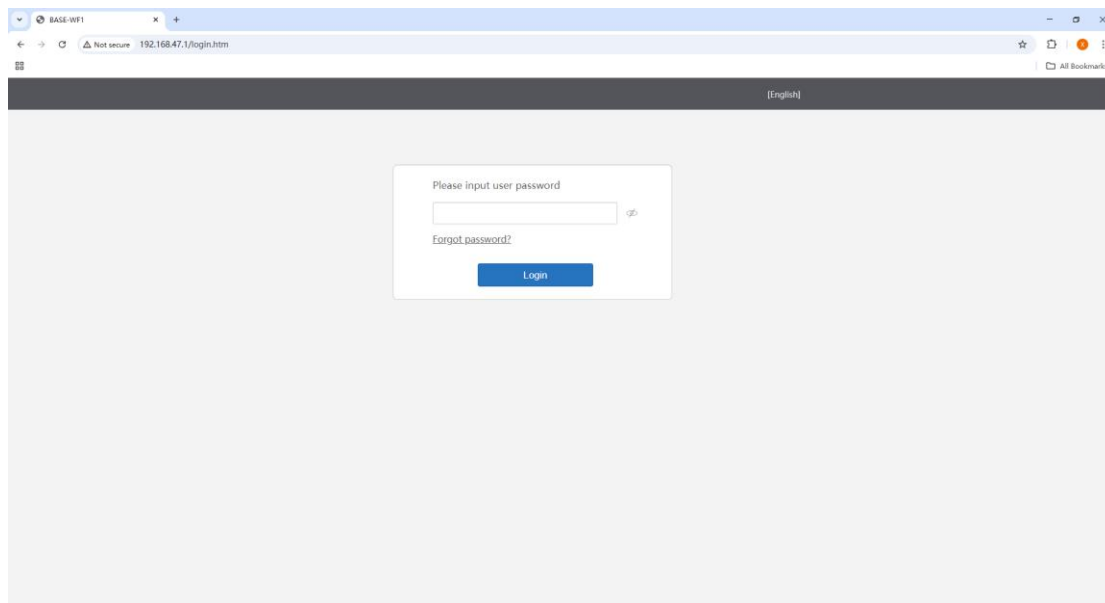


3.3.3. Web Interface Configuration

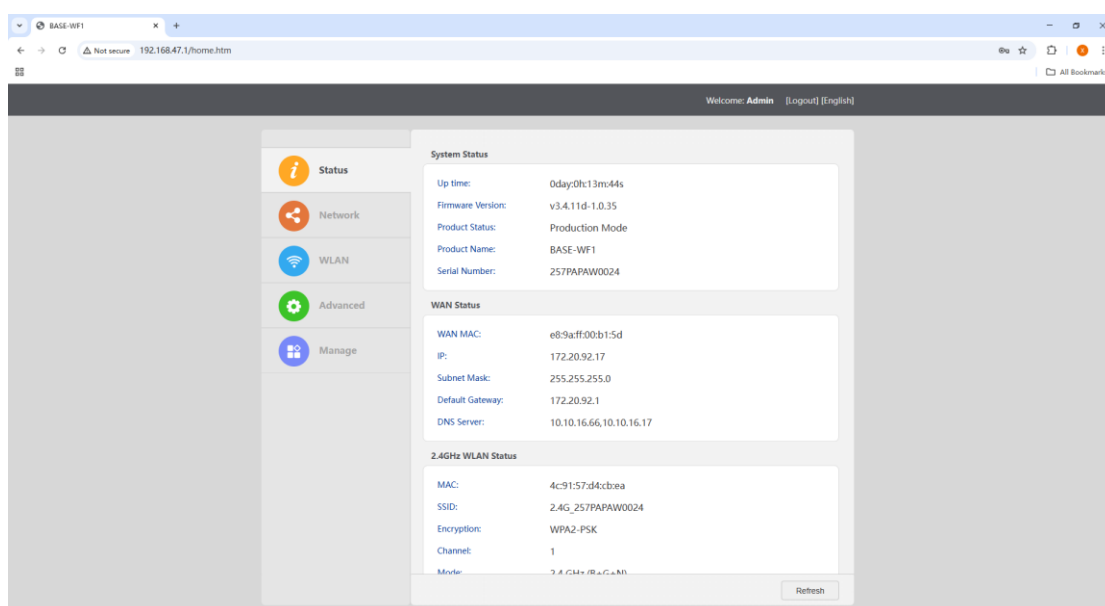
1. Connect a computer to base Wi-Fi.



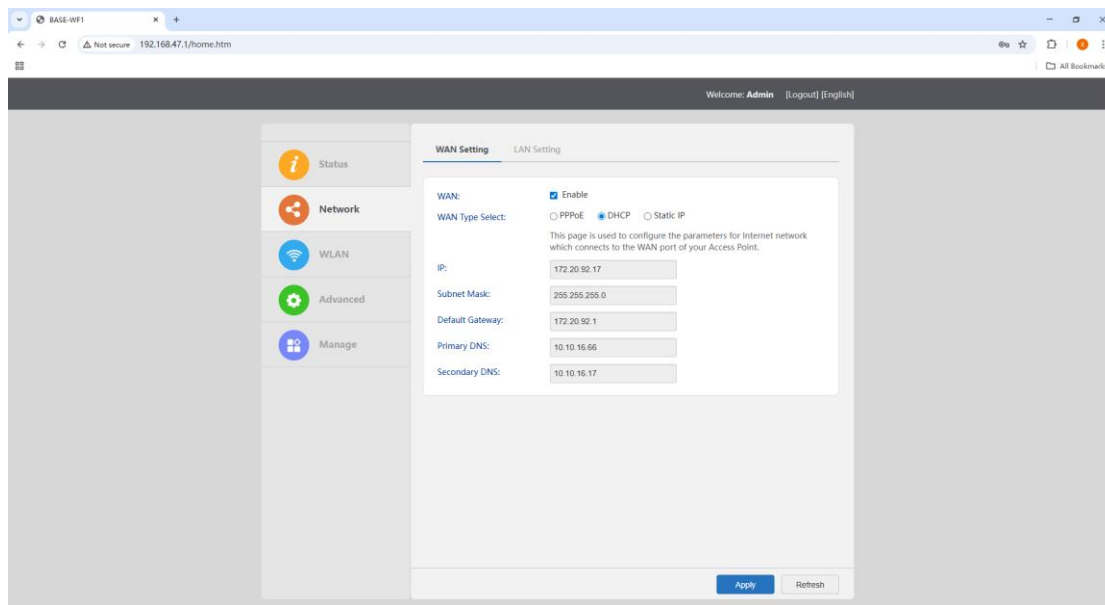
2. Access 192.168.47.1 in a web browser and enter Administrative Password from base label for login.



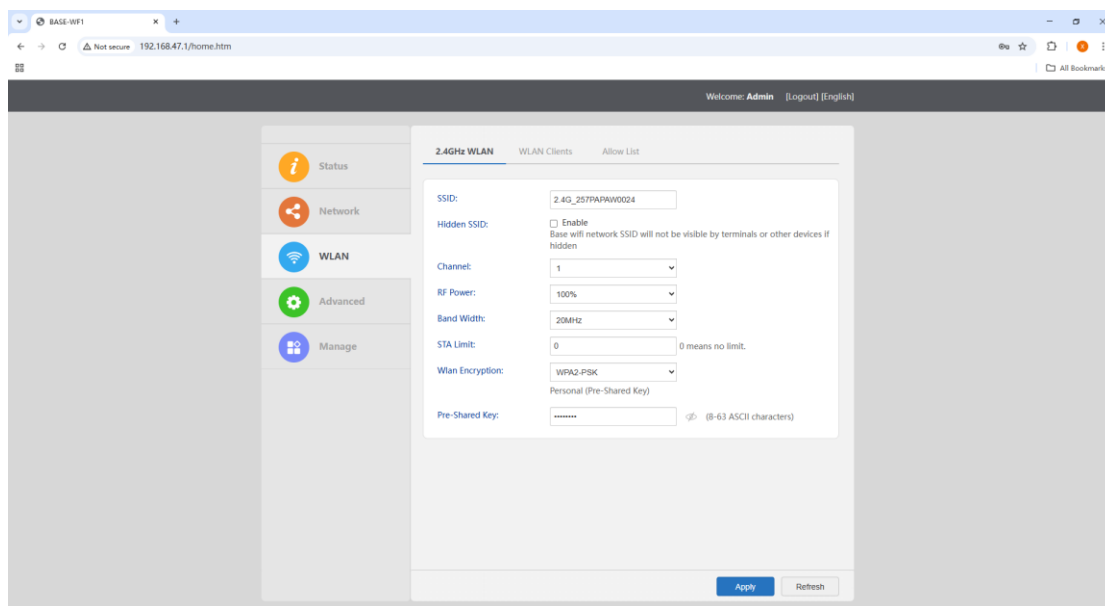
3. After logging in, the web interface provides several navigation tabs on the left:
 - **Status** Tab: Displays the current parameters and connection status of the communication base.



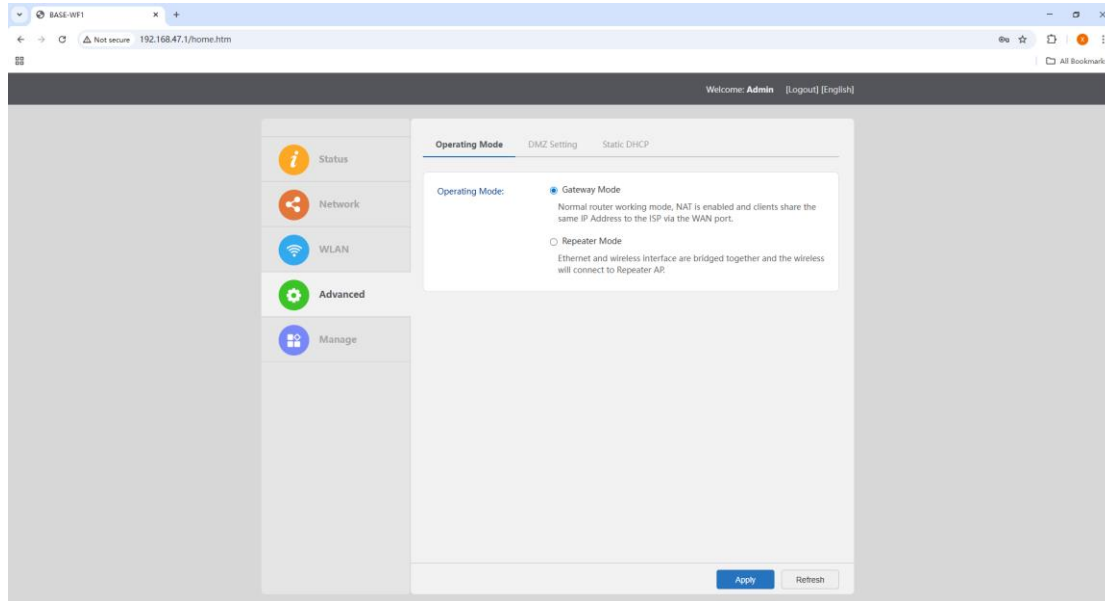
- **Network Tab:** Provides settings to view and modify Ethernet parameters.



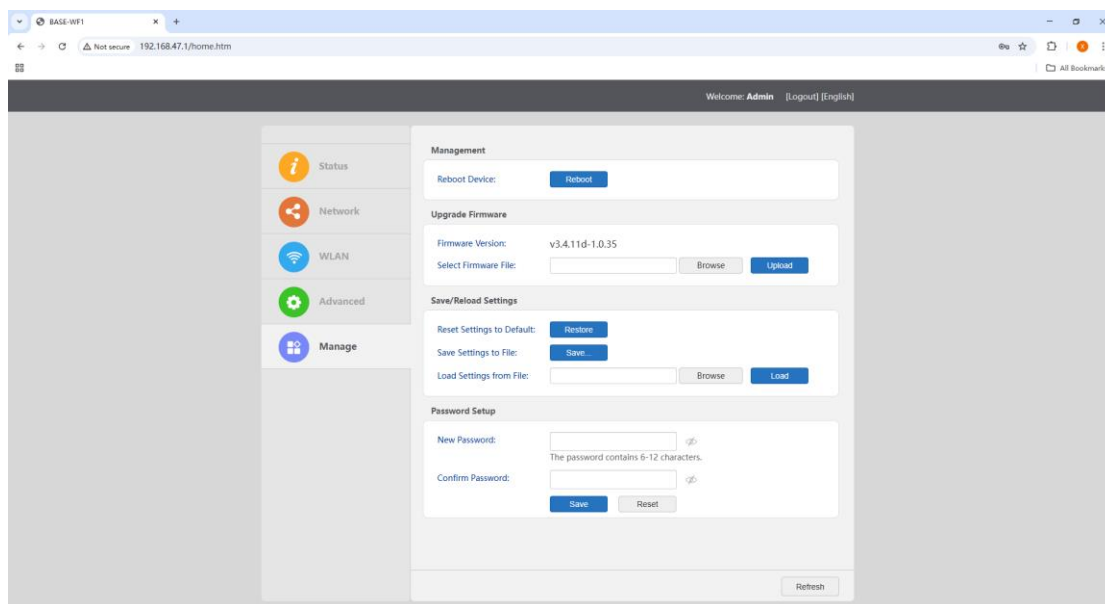
- **WLAN Tab:** Allows for viewing and modifying WLAN parameters, including the Wi-Fi connection password (**Pre-Shared Key**).



- **Advanced Tab:** Contains options to change the operation mode, enable a DMZ, or configure static DHCP assignments.



- **Manage Tab:** Used to change the web interface login password and update the base's firmware.



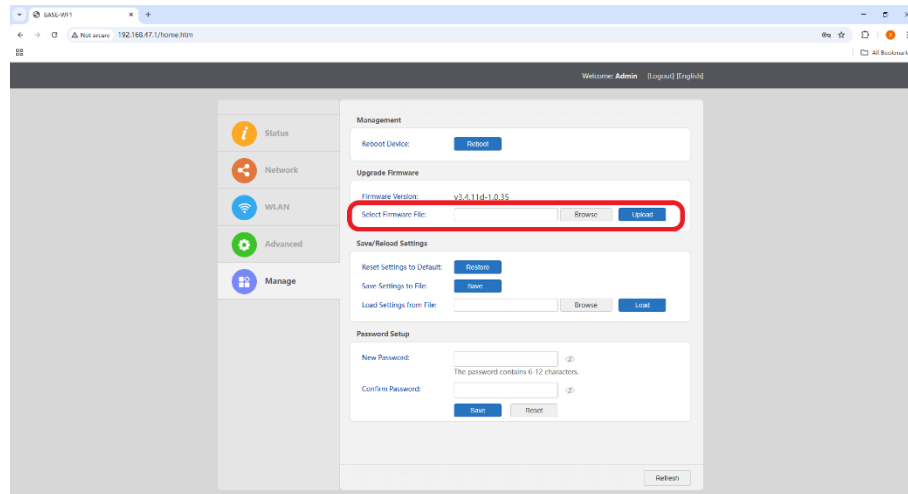
3.3.4. Firmware Update

There are two methods to update the base firmware.

Option 1: Via Web Interface

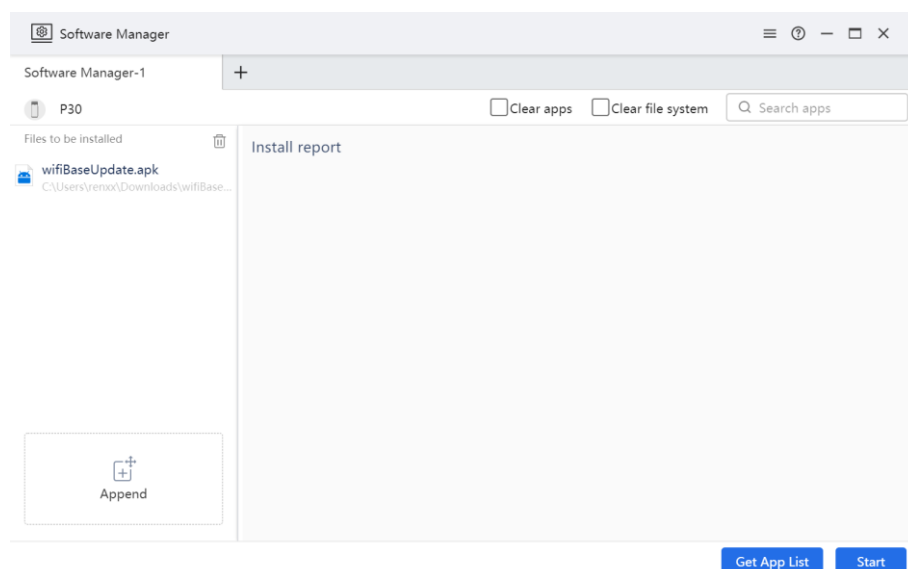
1. Open the configuration web interface (see section 3.3.3) and navigate to the **Manage** tab.

2. Under **Upgrade Firmware**, select **Browse** to choose the firmware file from your computer, then click **Upload**.
3. When prompted, enter the password **WIFIBASE@@** to authorize the update.



Option 2: Via P20/P30 Terminal

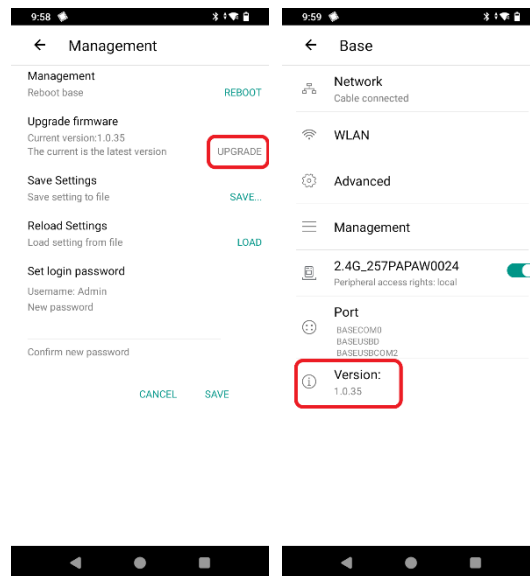
1. Load Firmware:
 - a) Connect the P20/P30 terminal to a computer.
 - b) Open the UniToolkit app and use its Software Manager tool to install the firmware update package onto the terminal.



2. Upgrade the Base:
 - a) Pair the base with the P20/P30. The terminal will display the current and available firmware versions in **Base > Management > Upgrade firmware**.

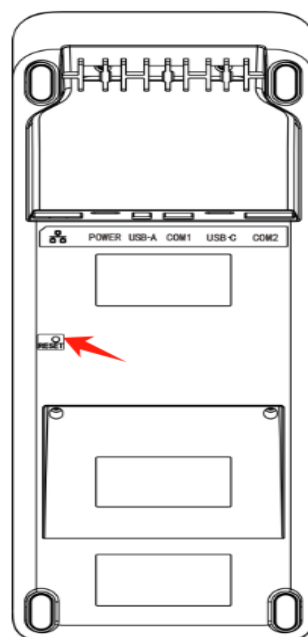
- b) Select **UPGRADE** to upgrade the base firmware.
 - c) Wait for a success confirmation.
3. Verification

After the update, check the new version number in the web interface or on the P20/P30 terminal to confirm the update was successful.



3.3.5. Factory Reset

As indicated in the diagram, press and hold reset button for 3 seconds using a pin to restore factory settings.



4. Transportation and Storage

- **Transportation**

The base should be handled carefully to prevent damage from rain, snow, sunlight, mechanical impacts, or dropping. The packaging must prevent crushing during transit to avoid damage.

- **Storage**

Store the product in its original packaging box. The storage area should be free of hazardous gases, flammables, explosives, corrosives, strong vibrations, impacts, or magnetic fields. Place the box at least 15 cm off the ground and 50 cm away from walls, heat/cold sources, windows, or air intakes.

5. FAQs

Question 1: Why won't my base start?

Answer:

1. Verify power supply.
2. If problem persists, contact customer service.

Question 2: Why does the base fail to associate with P20/P30 during initial setup?

Answer:

1. Ensure WLAN is enabled on P20/P30.
2. Keep P20/P30 within 5 meters of base during association.

Question 3: Why does my base show unassociated status when the STAT indicator is flashing green?

Answer:

1. Distance Issue
 - Keep P20/P30 within 5 meters of base for optimal connection.
 - Move devices closer if connection is lost.
2. Association Conflict
 - Base supports only one P20/P30 association at a time.
 - Current P20/P30 may not be the associated device.
 - See **Question 4** for re-association instructions.

Question 4: How do I force the base to associate with a specific P20/P30?

Answer:

1. Ensure base is powered on.
2. Press and hold association button for 15+ seconds.
3. Wait for base to restart.
4. Confirm COMM indicator shows solid green.
5. Proceed with P20/P30 association.

6. Standards

CE Marking

LANDI P20&P30 Functional Base complies with the essential health, safety, and electromagnetic compatibility requirements of European Directive 2014/53/EU on Radio Equipment for:

- Protecting the health and safety of users and all other parties.
- Meeting electromagnetic compatibility protection standards.

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

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

Note: This equipment 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

ISED Compliance Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Radiation Exposure Statement

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Environmental Compliance (WEEE and Packaging)

LANDI P20&P30 Functional Base is labeled in accordance with European Directives 2012/19/EU concerning Waste Electrical and Electronic Equipment (WEEE) and 2013/56/EC concerning Accumulators. Those provisions are requiring producers and manufacturers to become liable for take-back, treatment and recycling upon end of life of equipment.



The crossed-out wheeled bin symbol on the product or accessories indicates it is considered electronic equipment waste (WEEE) which must be properly disposed of and should not be thrown away. Spent batteries must also be collected separately for recycling.

Please contact your retailer for more details on the take-back and recycling program in place for disposing of old equipment. Participating ensures their responsible re-use and recycling, which benefits both the environment and human health.



The Green Dot symbol on the packaging confirms it complies with Directive 94/62/EC concerning packaging and packaging waste. Packaging bearing this symbol must be returned through collection schemes managed by accredited Green Dot organizations for recovery and recycling.



7. Customer Support

- **Repairs**

Please contact local distributors or [LANDI after-sales team](#) to arrange a repair. Be sure to keep your invoice or other valid proof of purchase documentation and present it when necessary.

- **Manufacturer**

Fujian LANDI Commercial Equipment Co., Ltd.

Correspondence Address: 5th & 6th Floor, Building 3A, Area A, Software Park, No.89, Software Avenue, Gulou District, Fuzhou, Fujian, 350001, China

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