

AXIUM DX8000 BASE W2

User Guide



Contents

Table of Contents.....	2
1. Product Introduction	4
1.1 What's in the Box – subject to ordered product configuration.....	4
1.2 Device Layout	4
1.3 Power Supply WARNING	5
1.4 Specifications	5
1.5 Environmental Conditions	6
2. Setup & Management with DX Terminal.....	6
2.1 Setup Base via DX Terminal Menu	6
2.2 Change Login Password.....	7
2.3 WAN and LAN Settings	7
2.4 Change SSID Pre-shared Keys (passwords).....	8
2.5 Advanced Setting.....	8
2.6 Upgrade the Base Firmware – contact Ingenico for firmware updates.....	9
2.6.1 Use Software Manager to download “firmware.apk” to the DX8000 Terminal:.....	9
2.6.2 Log into the Base Manage app on the Terminal.....	10
2.7 Load or Save Base setting	10
2.7.1 Save current settings to a file.....	10
2.7.2 Load the base settings from a file	11
2.8 Wi-Fi QR Code regeneration	11
2.9 Restore Factory Settings	11

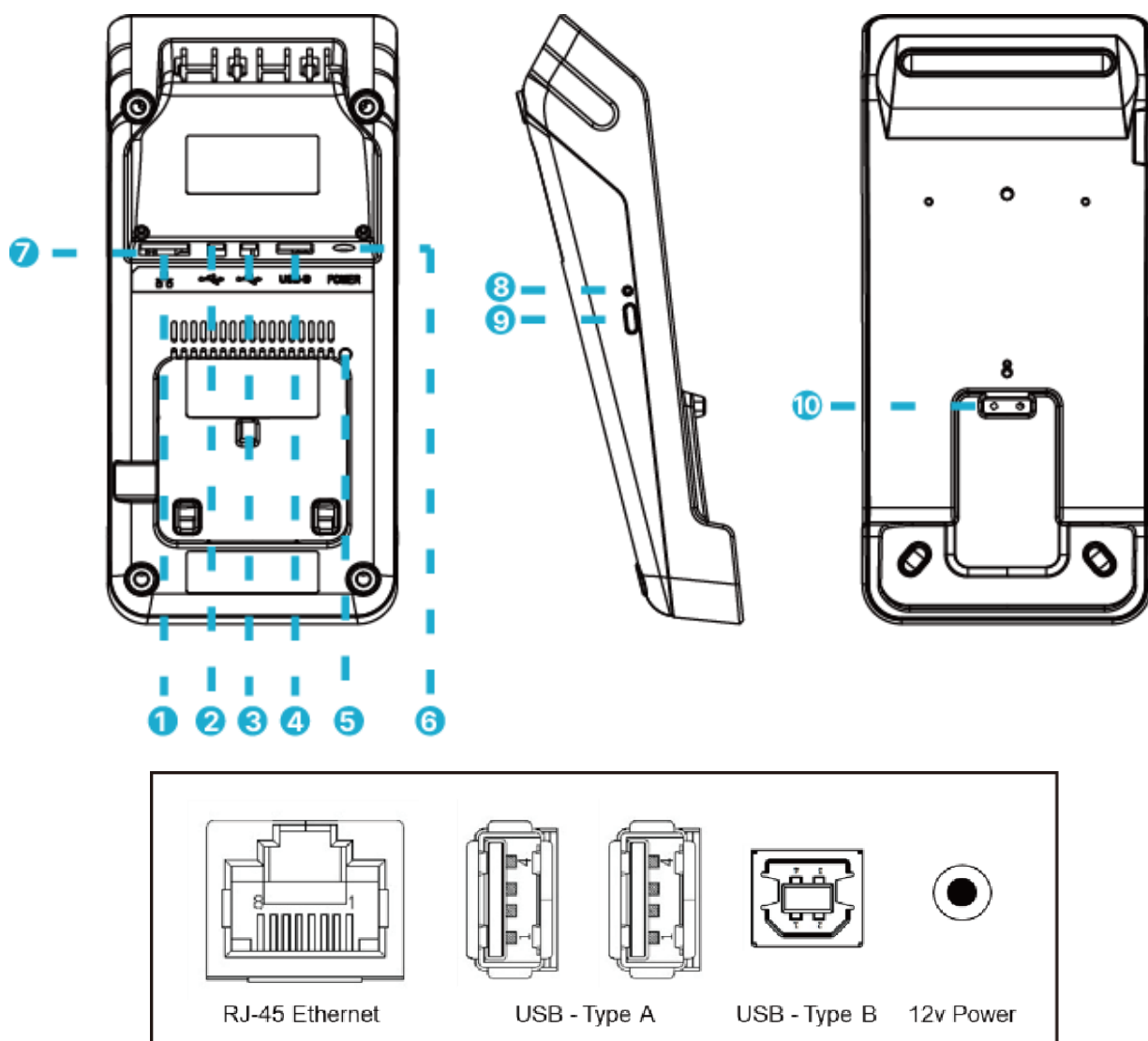
3. Setup & Management with Administrator Webpage	12
3.1 Access the Administrator application	12
3.2 Change SSID Pre-shared Keys (passwords)	13
3.3 Change Administrator Password	13
3.4 Restore (Reset) Settings	15
4. Pairing connection	15
4.1 Prepare for Base Pairing	15
4.2 Pair method	16
4.3 Unpair method	17
5. Base Operating Modes	17
5.1 Gateway / Router Mode – Default Operating Mode	17
5.2 Bridge Mode – (Also known as Access Point Mode)	18
5.3 WiFi Repeater Mode	18
6. Mount Base to Counter (Optional)	19
7. Recommendations	20
7.1 Safety	20
7.2 Delivery and Storage	20
7.3 Power Adapter	20
8. Standards	20
9. RED-DA	24
10. Troubleshooting	24

1. Product Introduction

1.1 What's in the Box – subject to ordered product configuration

- DX Base Station
- Safety guide
- 12V/3.33A power supply
- Power cable

1.2 Device Layout



1) RJ45 Ethernet connector	2) USB-Type A	3) USB-Type A
4) USB-Type B	5) Reset Button	6) Power connector –12 VDC
7) Network Status LED	8) Pairing Status indicator	9) USB Pairing Button
10) DX8000 battery contacts		

1.3 Power Supply WARNING

- The power adapter provided is specially designed for Ingenico AXIUM DX8000-BASE-W2.
- Do not use any other power supply and cable.
- Failure to use a certified power supply may damage your terminal and not be covered under the product warranty.

1.4 Specifications

Port	DC12V power connector 1XRJ45 Ethernet 10/100 network connector 2XUSB Type A Host port supporting USB 2.0 1XUSB Type B Device port supporting USB 2.0
Power	USB Host output: 5.0VDC 0.5A Charger Input: 12V 3.3A / Output-5.0 VDC 2.0A Power Supply: Input 100-240VAC,50Hz / 60Hz
Size and Weight	Size: 193.8mm x 89mm x 38.6mm / 7.63in x 3.5in x 1.5in Net Weight: 0.20kg / 0.44 pounds Gross Weight: 0.70kg / 1.54 pounds

1.5 Environmental Conditions

- Environmental conditions for transportation, storage and operation.

Temperature	Operating	0°C~40°C / 32°F~104°F
	Storage and Delivery	-20°C~70°C / -4°F ~158°F
Relative Humidity	Operating	10%~90%
	Storage and Delivery	5%~90% (at 40°C) / (104°F)
Max altitude		2000 m

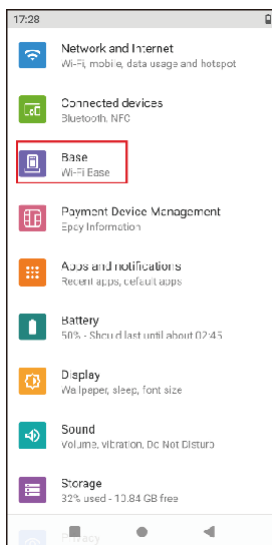
2. Setup & Management with DX Terminal

2.1 Setup Base via DX Terminal Menu

- Power on the base.
- Click "Settings" menu on DX8000 and then click "Base".
- Click "Scanning Box" and scan the Data matrix barcode label on the back of base.
- On the Pop-up menu choose "Only use base Wi-Fi".
- Wait for the "Successfully Connected" status.



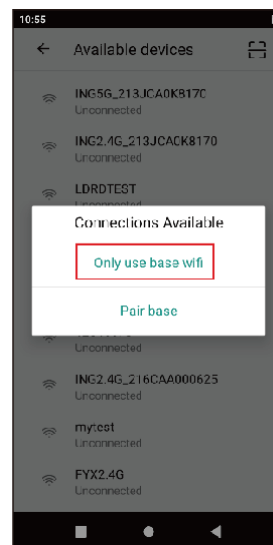
If the default password has been changed, scanning the Data matrix code label to connect will not work, and must enter the password manually.



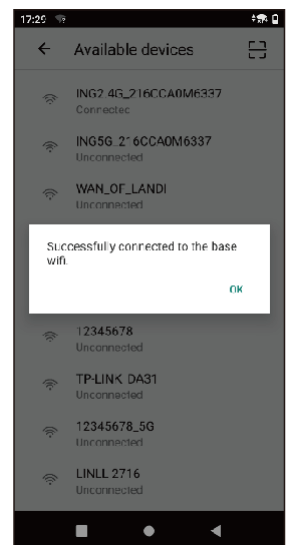
Settings



Available Devices



Base Connection



Confirm Connection

2.2 Change Login Password

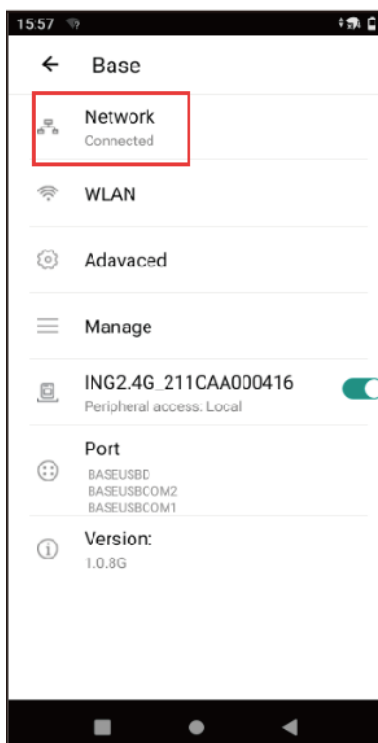
Note: This is the password to access administrator settings only

- From the DX8000 settings menu, choose Base.
- Select the Management option.
- Go to the Set Logon password option at the bottom of screen.
- Enter the new password in the New Password box.
- Re-enter the password in the Confirm New Password box.
- Click Save and wait for confirmation.

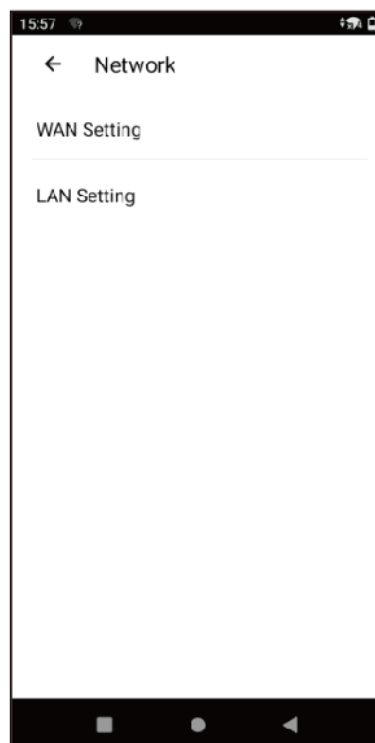


2.3 WAN and LAN Settings

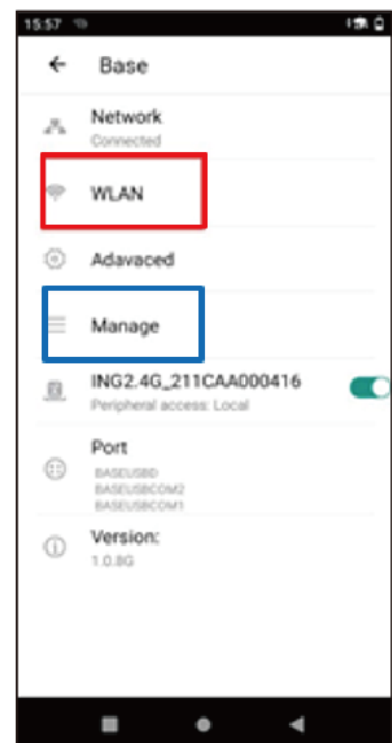
- Tap on "Network" enter WAN Setting or LAN Setting menu.
- Choose WAN or LAN to view settings.



Base

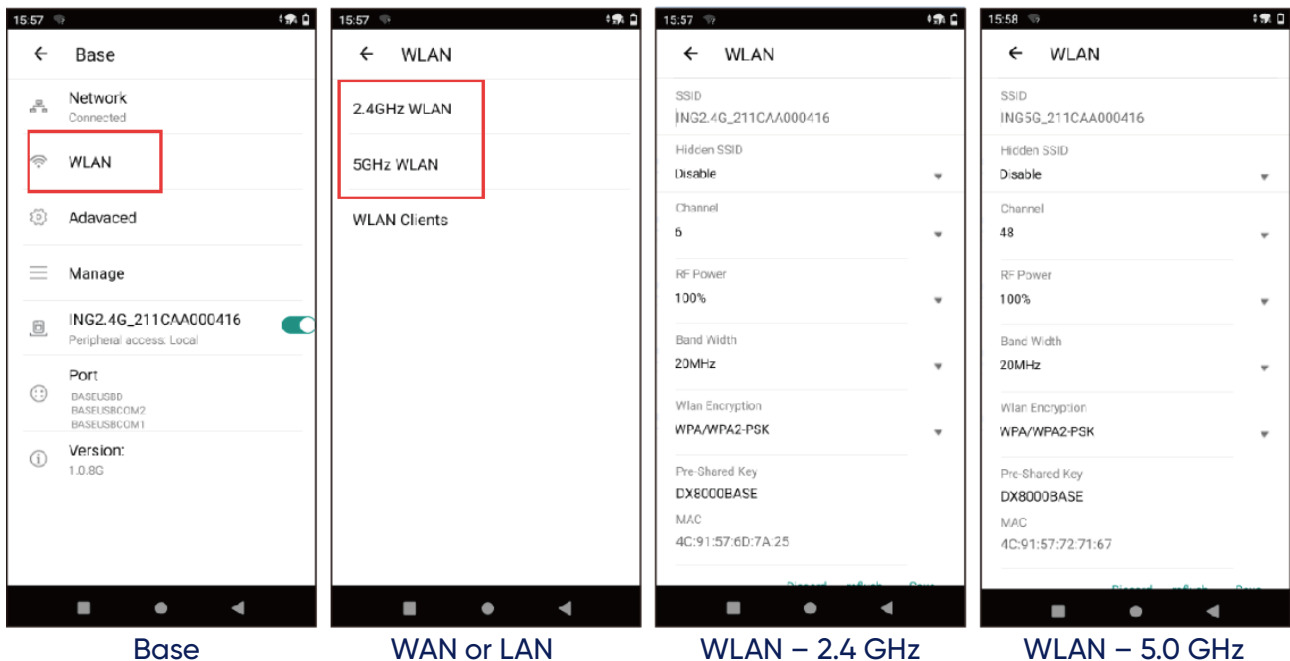


WAN or LAN



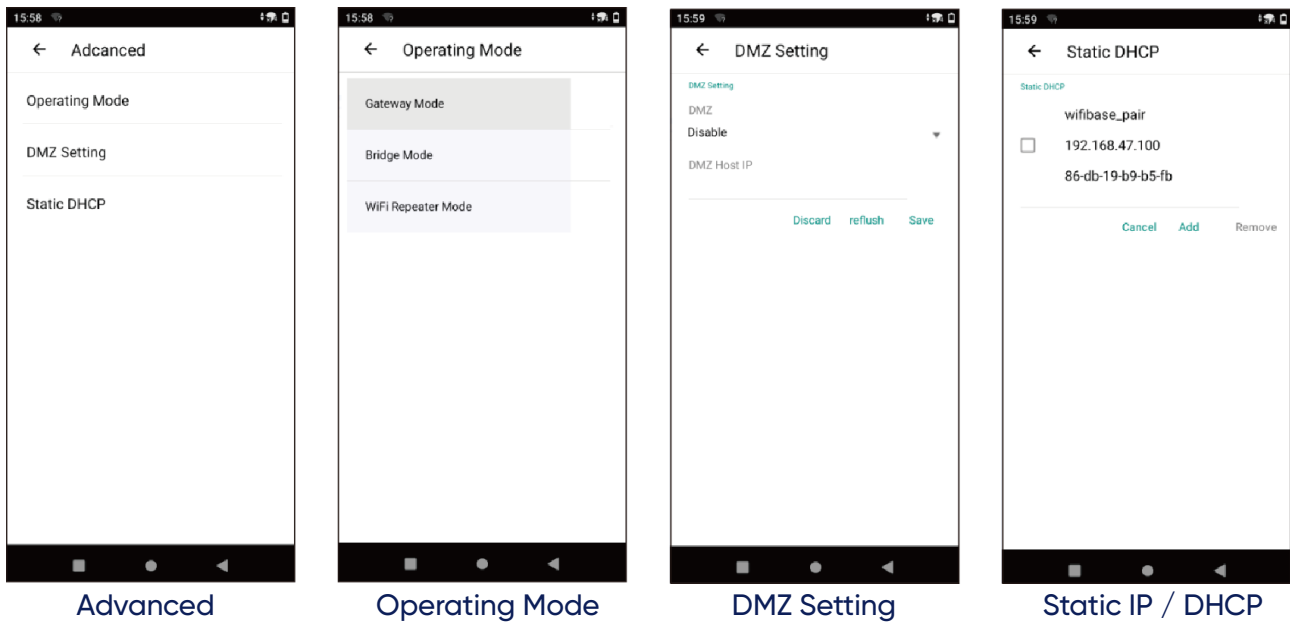
2.4 Change SSID Pre-shared Keys (passwords)

- Enter WLAN menu.
- Choose appropriate Wi-Fi network–2.4G WLAN or the 5G WLAN.
- Input new network password into the Pre-shared Key box at the bottom of the screen.
- Click save and then apply.
- Wait for confirmation.



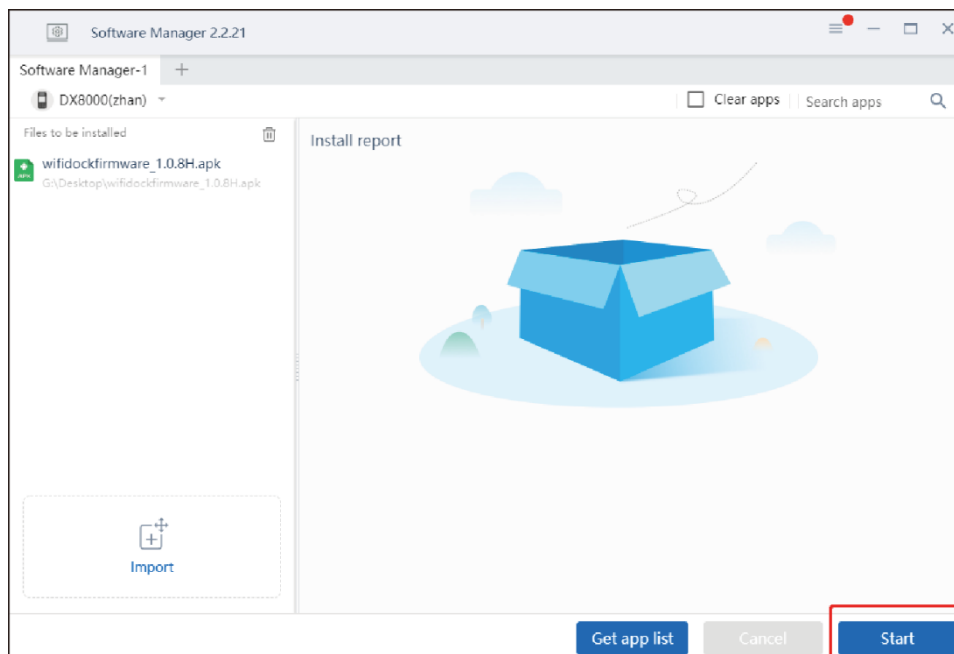
2.5 Advanced Setting

- Choose Advanced Settings Option.
- Choose from one of the sub menus below.
 - Advanced: Set the operating mode, DMZ and static DHCP of the base.
 - Operating Mode: Choose Mode required – Gateway Model is the default setting.
 - DMZ Setting: Leave set to disable by default.
 - Static / DHCP: Choose Static IP address if required. DHCP is the default.



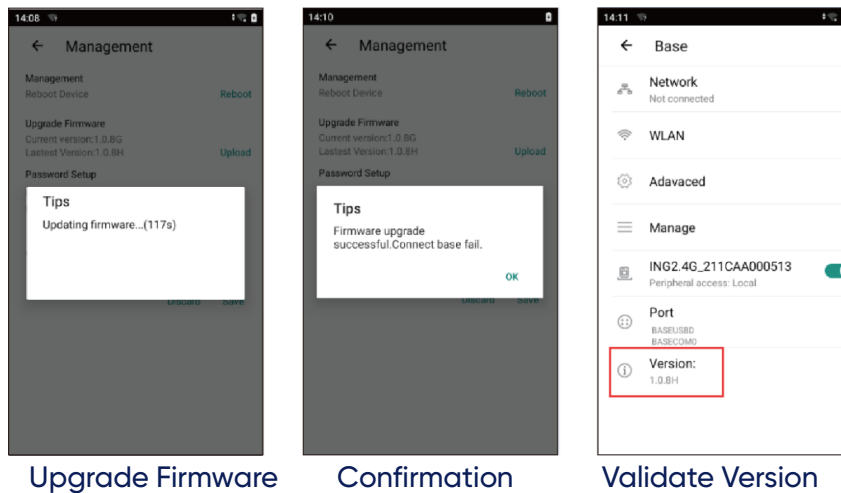
2.6 Upgrade the Base Firmware–contact Ingenico for firmware updates

2.6.1 Use Software Manager to download “firmware.apk” to the DX8000 Terminal:



2.6.2 Log into the Base Manage app on the Terminal.

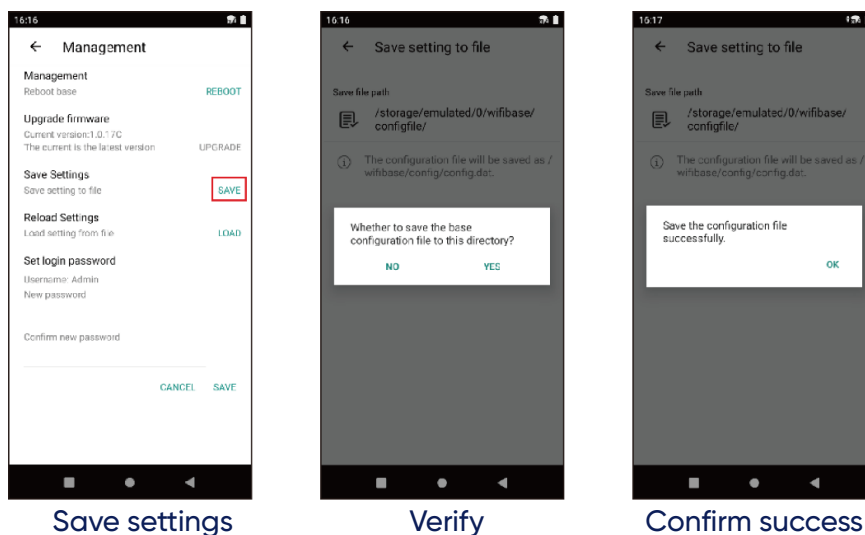
- Click on the Management tab.
- Click Upload to the right of Update Firmware.
- Select the firmware file downloaded previously.
- Verify that "Firmware upgrade" successful message is displayed.
- Check the firmware version of the base.



2.7 Load or Save Base setting

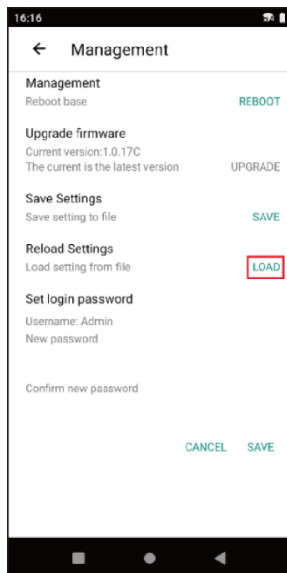
2.7.1 Save current settings to a file

- Click "Save".
- Choose "Yes" when prompted to save settings.
- Verify that configuration saved successfully message is displayed.

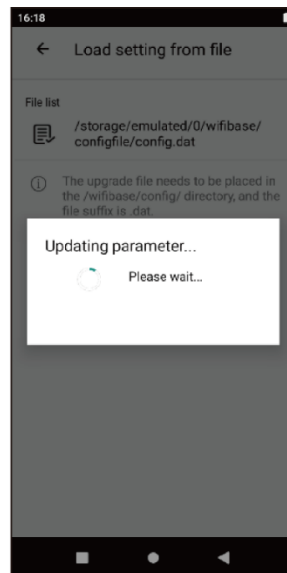


2.7.2 Load the base settings from a file

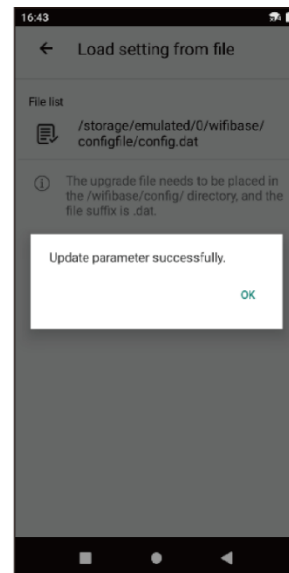
- Choose "Load" settings from file.
- Wait for updating to complete.
- Verify that Update Parameter is successful.



Load Settings

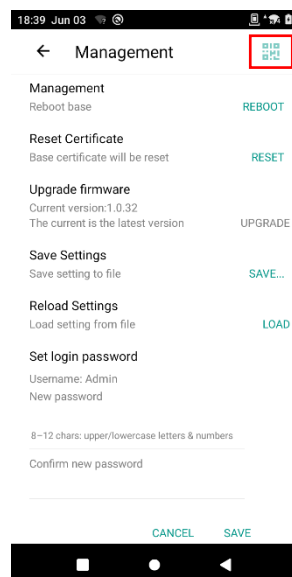


Updating

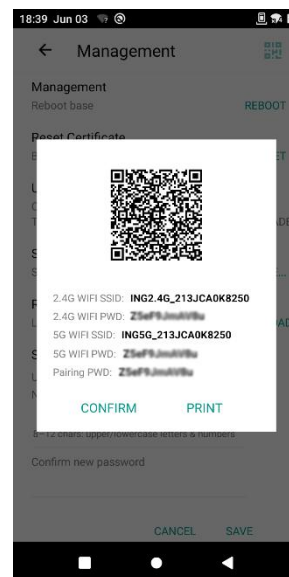


Confirmation

2.8 Wi-Fi QR Code regeneration



[Step1]



[Step2]

2.9 Restore Factory Settings

- See section 3.4 later in this guide.

3. Setup & Management with Administrator Webpage

Note: Recommended only for administrator use

3.1 Access the Administrator application

- Use a computer to choose one of the two BASE default SSIDs.
 - Access the Wi-Fi network settings on your computer.
 - Example SSIDs are shown in the diagram to the right.
 - 2.4 GHz or 5 GHz network will function correctly.
- Use web browser to connect to the base default address : <http://192.168.471>. or <https://192.168.471>.
- Enter the default network password when prompted. It is printed on the label on the bottom of the Base. After the first logging in, you need to change the default passwords for Pairing Password and Wireless Password. After the first logging in, you need to change the default passwords for Pairing Password and Wireless Password. The Pairing Password requires a length of 8-12 characters and must be a combination of uppercase letters, lowercase letters, and numbers.



Reset initial password

New Password:
8–12 chars: upper/lowercase letters & numbers.

Confirm Password:

Wireless Password:

Save

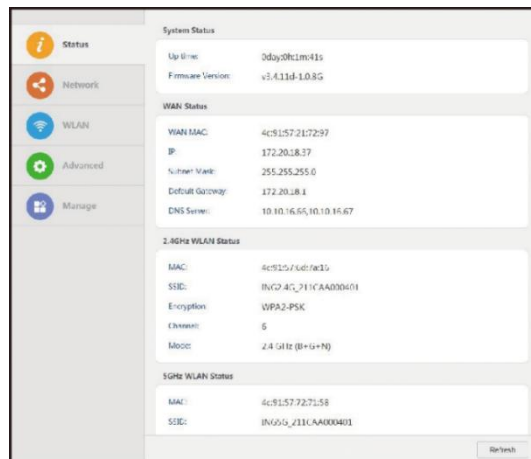
- Browse the settings tabs – shown in more detail in the diagrams below.
 - Status Page
 - WAN/LAN Page
 - WLAN
 - Operating Mode
 - Manage

3.2 Change SSID Pre-shared Keys (passwords)

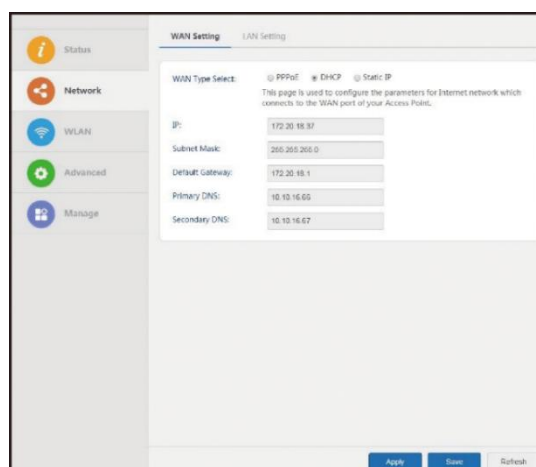
- Select WAN Page – the 2.4 GHz or 5GHz network page will be displayed.
- Input new network password into the Pre-shared Key box.
- Click save and then apply.
- Wait for confirmation.

3.3 Change Administrator Password

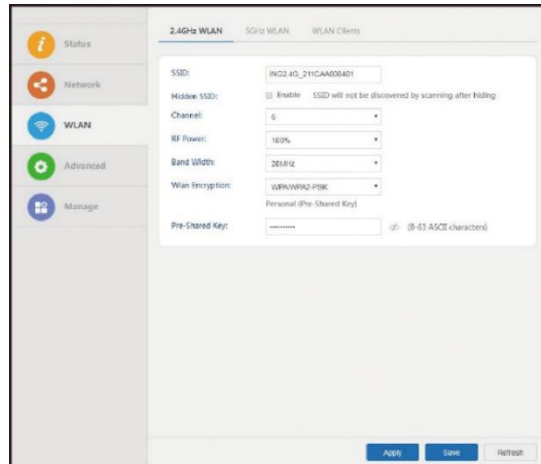
- Select Manage Page.
- Type new password in both boxes.
- Click save button.
- Wait for confirmation.
- Status Page – provides Firmware version and status of the WAN and both the 2.4 and 5 GHz Wi-Fi networks.



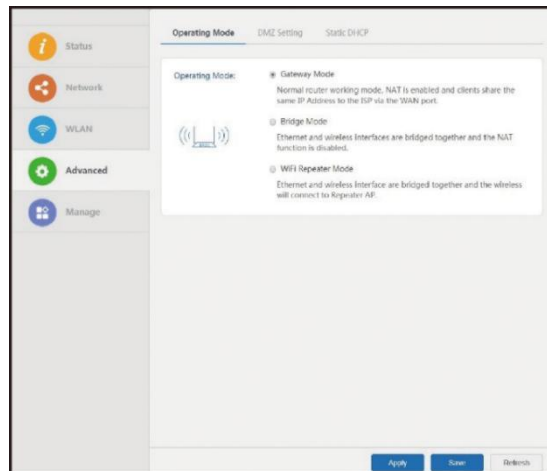
- WAN/LAN page – provides settings for connection to networks within the location or beyond.



- WLAN – Provides settings for 2.4 and 5GHz Wi-Fi networks and also a list of clients that have connected to either of the Wi-Fi networks.

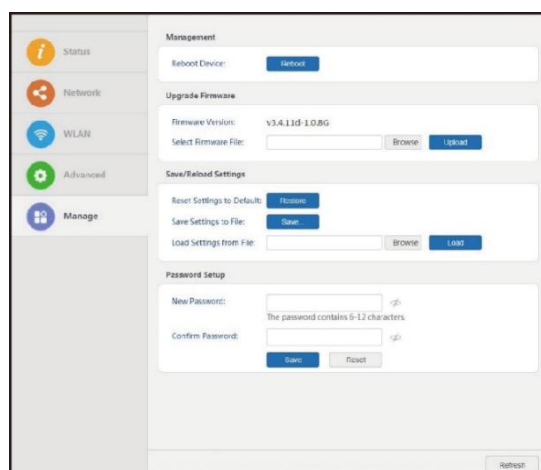


- Operating Mode – Provides settings for supporting modes of operation. Gateway mode is the typical choice for most users.



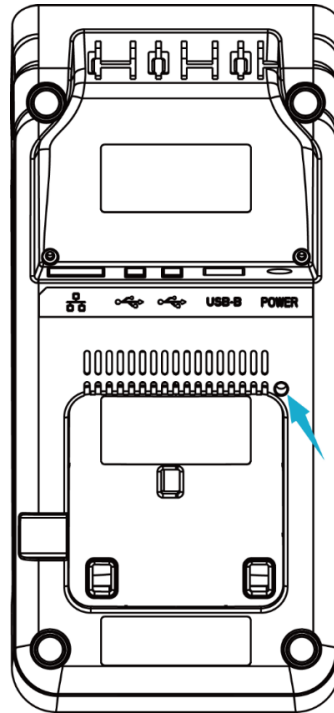
- Manage Page – provides parameters to update firmware, save or load Base configuration and change the password.

NOTE: It is strongly recommended that all passwords are immediately changed from the default ones.



3.4 Restore (Reset) Settings

- Use paperclip or similar tool to press the RESET button for approximately 10 seconds.
- Base will revert to factory setting and automatically reboot.
- The location of the RESET button highlighted in the diagram.



4. Pairing connection

- The ports on the base are only usable after the DX8000 is paired with the base.

4.1 Prepare for Base Pairing

- Only one DX8000 can use the USB ports of the base at the same time.
- If the red indicator light is on, it indicates the base is available for pairing.
- If the green indicator light is on, it indicates the base is successfully paired. If the base is to be paired with another DX8000, long press on the [Pairing] button to clear the pairing record. When the red indicator light is on, pair another DX8000 with the base.

- Illumination of two color indicator lights:

Sequence	Light Condition	Base Status
1	Red light on	Base to be paired
2	Green light flashing	Base paired but disconnected with DX8000
3	Green light on	Base paired and connected with DX8000
4	Red light flashing	Base in upgrading

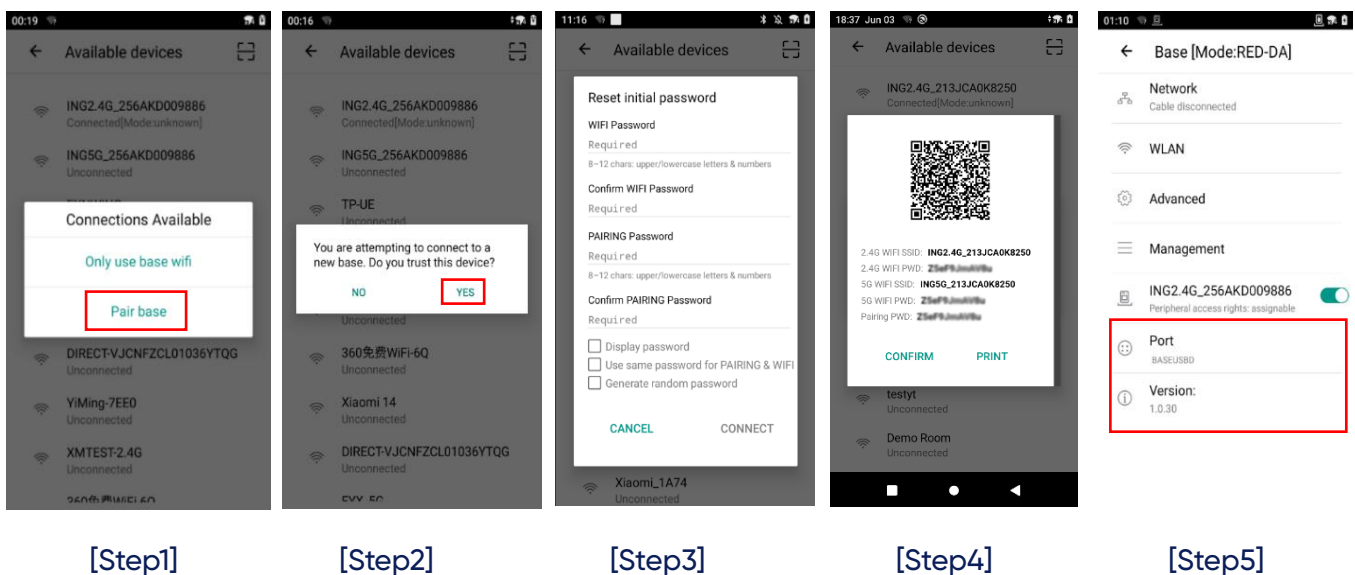
4.2 Pair method

First Pairing

- First, connect DX8000 to the base via chapter 3.1 and choose "Pair base". [step1].
- Then choose "yes". [step2].
- Next, you need to change the default passwords for Pairing Password and Wireless Password. The Pairing Password requires a length of 8-12 characters and must be a combination of uppercase letters, lowercase letters, and numbers. [step3].
- After setting the passwords, a Wi-Fi QR Code will be generated, which can be printed for subsequent terminal pairing via QR code scanning. [step4].
- After pairing, we can check the Ports and Version of base from DX8000. [step5].

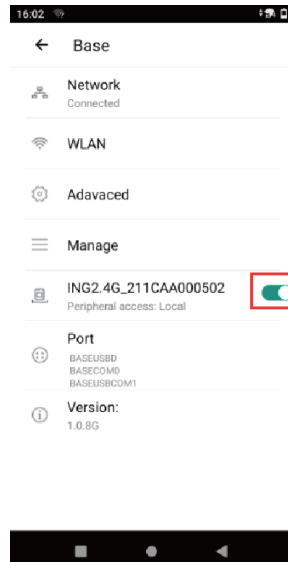
Re-pairing

- Connect DX8000 to the base via chapter 3.1 and choose "Pair base". [step1].
- After pairing, we can check the Ports and Version of base from DX8000. [step5].

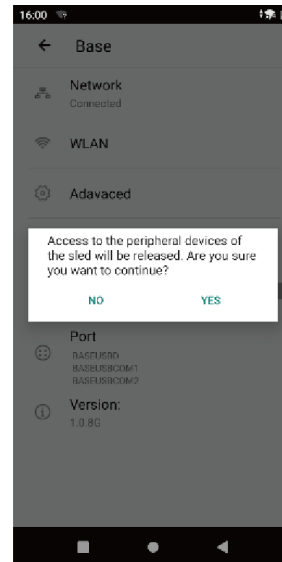


4.3 Unpair method

- Only the paired DX8000 could be unpaired with the base. When DX8000 unpairs the base, the base will change its conditions to "unpaired" with the red light on.
- Click the blue button besides the SSID [Step1]. Click "YES" [Step2] to unpair the base with DX8000:



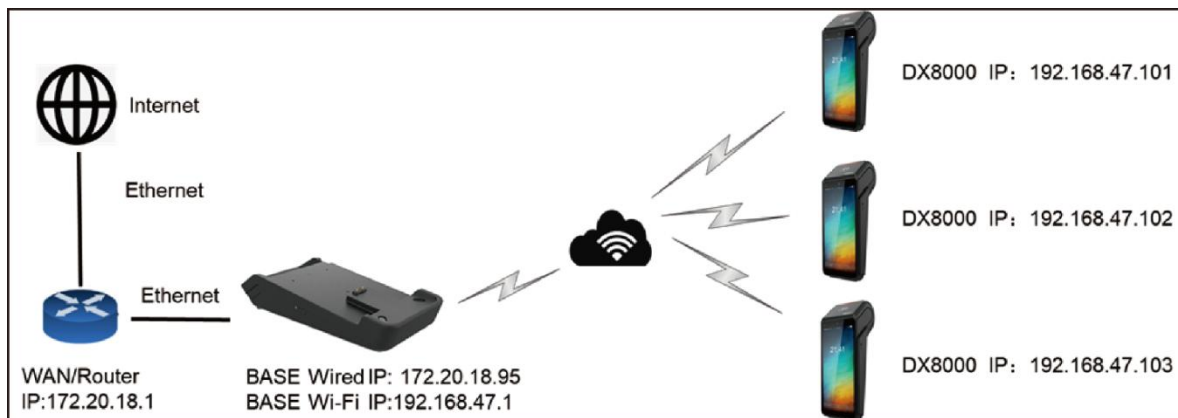
[Step1]



[Step2]

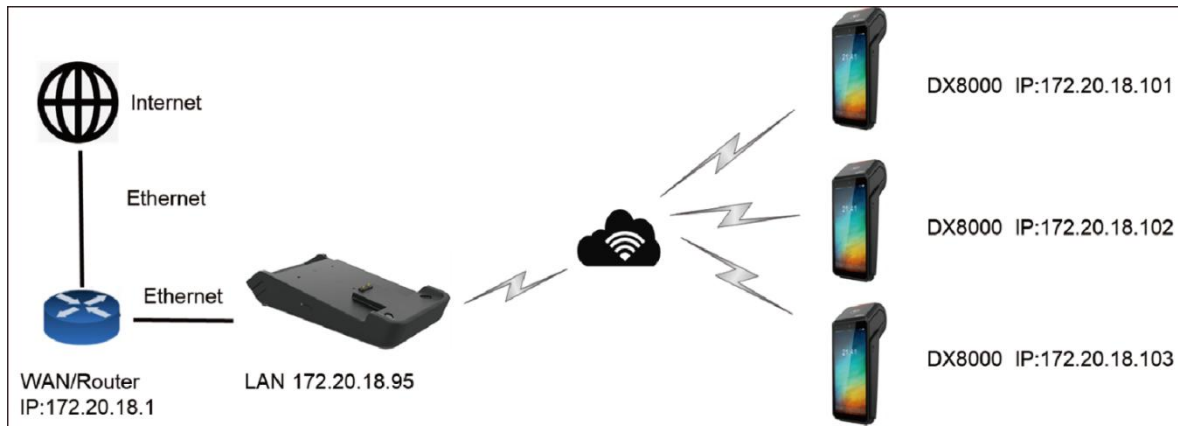
5. Base Operating Modes

5.1 Gateway / Router Mode – Default Operating Mode



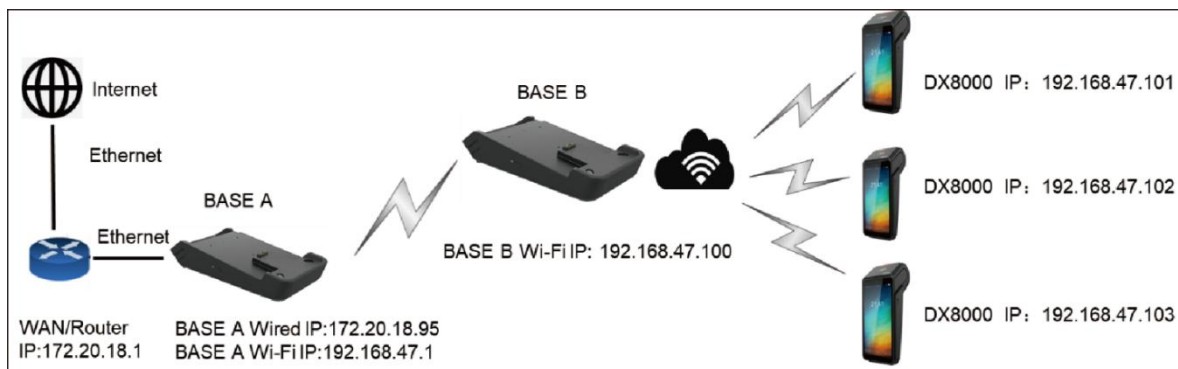
- Local router distributes a corporate IP address to the Base Station Ethernet port.
- Base distributes IP addresses to DX8000 devices via internal DHCP server.
- DX8000 Base and devices are on private network segment (e.g. 192.168.47.X).
- Only the Base Station IP address is visible to and addressable by the network.
- All of the device's private IP addresses are masked from the network by NAT.

5.2 Bridge Mode – (Also known as Access Point Mode)



- Router distributes corporate IP network addresses to the bases and DX8000 devices.
- Base and devices are directly connected to local router and on the same network segment.
- Base DHCP server is turned off and NAT is not used.
- All device IP and MAC Addresses are visible to and addressable by the network.

5.3 Wi-Fi Repeater Mode



- Designed to expand wireless coverage, by connecting two bases together by Wi-Fi.
- For example, DX8000 is too far away to connect Base A.
- Put Base B between Base A and DX8000 & Set Base B repeat the Base A.
- DX8000 can connect to internet via Base B.
- Does not operate with a Mesh network.



Important Recommendation – Network Deployment

This device is designed to function primarily as an access point to extend or manage your internal network. It is not recommended to connect this device directly to a Wide Area Network (WAN) or to use it as a standalone internet gateway.

For optimal performance, security, and network stability, please connect this device behind your main WAN router.

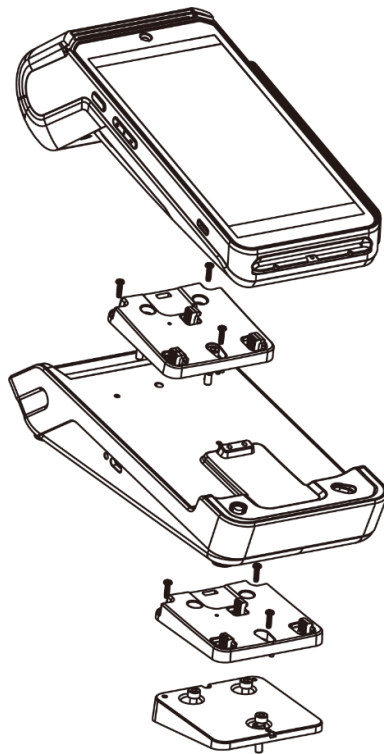
6. Mount Base to Counter (Optional)

Installation procedure:

- Position the space block on the table and install screws.
- Mount the Base fixing structure on the space block with three screws.
- Place the base on the structure to lock it in position.
- Fasten the Base mounting structure on base with three screws.

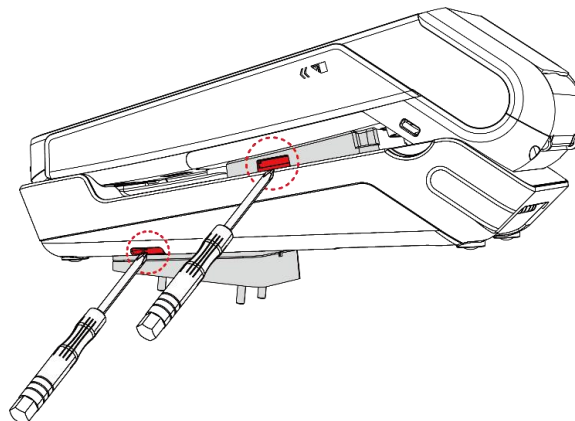
NOTE: fasteners should be appropriate for counter material.

- Replace the battery cover of terminal.
- Put terminal on the base to lock it.



Removal procedure:

- Use screwdriver to push the area of the structure to unfix them.



7. Recommendations

7.1 Safety

- Avoid putting the terminal in direct sunlight, high temperature, moist, dusty or explosive and reduce or eliminate vibration and direct pressure.
- Keep the device and accessories out of reach of children.
- Cut off the power before cleaning the device and wipe the main body with dry cloth.
- When the following abnormal phenomena occur, stop running the device immediately, cut off the power supply, and report to the service provider as soon as possible:
 - Harsh noise heard during operation.
 - Impurities or water found in the machine.
 - Unpleasant smell found during operation.

7.2 Delivery and Storage

Deliver the device in normal way, avoiding rain and snow, sun exposure and mechanical impact. The product should be stored in the original box. The box should be at least 15cm away from the floor, at least 50cm from the wall, heat source, cold source, window or air inlet.

7.3. Power Adapter

The base can only be connected to the power adapter which is provided with AXIUM DX8000-BASE-W2.

WARNING

The power adapter provided is specially designed for Ingenico AXIUM DX8000-BASE-W2. Do not use any other power supply and cable. The use of a power supply and cable with apparently similar voltage/current characteristics may damage your terminal.

8. Standards

CE Marking

The CE marking indicates AXIUM DX8000-BASE-W2 complies with the requirements of European Directive 2014/53/EU on Radio Equipment for:

- The protection of the health and safety of the user and any other person.
- The protection requirements with respect to electromagnetic compatibility.
- The protection requirements linked to network protection/protection of data and personal privacy/protection from fraud.

And comply with harmonized standards.

Operating Frequency Band (RF):

Network Type	TX Frequency	RX Frequency
802.11 b/g/n:	2412-2472MHz	2412-2472MHz
802.11a/n/ac:	5150-5250MHz	5150-5250MHz
	5250-5350MHz	5250-5350MHz
	5470-5725MHz	5470-5725MHz
	5725-5850MHz	5725-5850MHz

Transmission power (max):

2.4GHz Wi-Fi	5GHz Wi-Fi
16.46dBm	20.94dBm(W52), 19.96dBm(W53)
	20.20dBm(W56), 13.90dBm(W58)

RF exposure

The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement to the user for keeping 20cm separation distance and the prohibition of operating to a person has been printed on the user manual. So, this product under normal use is located on electromagnetic far field between the human body.

FCC WARNING

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, and
- This device must accept any interference received, including interference that may cause undesired operation.

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

The antennas used for this transmitter must be co-located or operating in conjunction with any other antenna or transmitter.

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

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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.

5GHz Wi-Fi should be used indoor only.

ISED WARNING

This device complies with part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

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

In accordance with the Innovation Regulations, Science and Canada Economic Development, this radio transmitter may operate with an antenna of a type and maximum (or lower) gain approved for the transmitter by Industry Canada. In order to reduce the risk of radio interference to other users, the antenna type and its gain must be chosen so that the equivalent isotropically radiated power (e.i.r.p) does not exceed the intensity required by the antenna establishing a satisfactory communication.

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

5GHz Wi-Fi should be used indoor only.

Le Wifi 5 GHz doit être utilisé à l'intérieur uniquement.

Exposition aux RF

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

Le rayonnement de la classe b respecte ISED fixaient un environnement non contrôlés. Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20 cm ton corps. Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.

Restrictions in the 5GHz band:

According to Article 10(10) of Directive 2014/53/EU, the packaging shows that this terminal will be subject to some restrictions when placed on the market.

In all EU member states, operations of 5150–5350MHz are restricted to indoor use only.



BE	BG	CZ	DK	DE	EE	IE	EL
ES	FR	HR	IT	CY	LV	LT	LU
HU	MT	NL	AT	PL	PT	RO	SI
SK	FI	SE	NO	IS	LI	CH	TR

Environment (WEEE, Batteries and packaging)

This product is labeled in accordance with European Directives 2012/19/EU concerning Waste Electrical and Electronic Equipment (WEEE) and 2013/56/EC concerning Batteries and Accumulators. Those provisions require producers and manufacturers to become liable for take-back, treatment and recycling upon end of life of equipment and batteries.

THE PRODUCT



The cross-out waste bin stuck on the product or its accessories means that the product belongs to the family of electrical and electronic equipment, and waste batteries must not be thrown away but collected separately and recycled.

Please contact your retailers for more detailed information about the compliance solution in place for disposing of your old product and used batteries.



Packaging waste must also be collected separately to ensure a proper disposal and recycling.

In this way you can participate in the re-use and upgrading of Electrical and Electronic Equipment Waste, which can influence the environment and human health.



It stands for DC Voltage.

9. RED-DA

The product has been designed and manufactured in accordance with the essential requirements of the RED DA (Radio Equipment Directive Delegated Act), as set out in Commission Delegated Regulation (EU) 2022/30 of 29 October 2021 supplementing Directive 2014/53/EU of the European Parliament and of the Council with regard to the application of the essential requirements referred to in Article 3(3), points (d), (e) and (f).

- Article 3.3 (d): Network Protection
- Article 3.3 (e): Data and Privacy Protection
- Article 3.3 (f): Fraud Prevention

RED DA aspects have been assessed and tested in accordance with the harmonized standard EN 18031: "Common security requirements for radio equipment", ensuring alignment with the essential cybersecurity requirements of Directive 2014/53/EU. This applies to the relevant categories and classes of radio equipment as specified in Delegated Regulation (EU) 2022/30. The assessment remains valid as long as the hardware and software integration – including all relevant applications – continues to comply with the requirements set forth by the applicable RED DA. Any additional software should follow RED DA requirements to remain EU compliant. Please contact Ingenico support for more information (<https://www.ingenico.com>).

10. Troubleshooting

Q1: The base fails to connect DX8000.

- Issue: DX8000 WLAN is not yet open.
- Solution: Open WLAN via the drop-down box of DX8000.

Q2: Cannot access the Base web interface.

- Issue: The DX8000 base password will not function correctly.
- Solution: Input the correct password or restore system default setting to revert to the default password.

Q3: The base is not connected to the DX8000, while the green indicator light flashes.

- Issue: The two devices are too far away from each other that their connection fails.
- Solution: Place the two devices in closer proximity.

Q4: Mobile device cannot connect to 5GHz SSID, but the 2.4GHz one functions correctly.

- Issue: Mobile devices do not display the 5GHz SSID?
- Solution: Verify that the mobile device supports 5GHz Wi-Fi networks.

Q5: It cannot be recognized when the base connects to PC/ECR by USB TYPE-B port.

- Issue: It requires a CH340 driver to be installed on PC/ECR.
- Solution: For Windows, supported versions include 11/10/8.1/8/7/VISTA/XP/2000/98. And almost Windows 11/10 with Internet connected, the driver can be automatically installed once device connects to PC at the first time. Other Windows variants are also supported, including Windows Server (2022/2019/2016/2012/2008/2003), Windows Embedded and Windows IoT.

For macOS and Android, there are available drivers, but needs to be installed manually.

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For Linux version is higher than 2.6.32 (or equal to 2.6.32), there is available driver just inside OS. But a few Linux versions which are customized (driver may be removed) need to install manually. And for Linux which version is lower than 2.6.32, it also needs to be installed manually.

More details please consult after-sales personnel.

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