ZYXEL

NR7501
5G NR Outdoor Router

Quick Start Guide

Package Contents

|					
Zyxel Device	GbE Cable	Gigabit PoE Injector	Plug	Cable Gland	SIM Card Slot Cover with three M3 Screws
Safety Warnings	Quick Start Guide				

Mounting Kit

M8 Washers x2	M8 Spring Washers x2	M6 Flange Nuts x4	Screw Bolts M8 x2	Nylon Wall Plugs x4	Tapping Screws M4 x4
Main Bracket x1	Middle Bracket x1	Device Bracket x1	Hose Clamps x2	

Support Information

✉ https://service-provider.zyxel.com/global/en/tech-support

See the User's Guide at www.zyxel.com for more information, including customer support and safety warnings.

EU Importer
Zyxel Communications A/S
Gladsaxevej 378, 2. th. 2860 Søborg, Denmark
https://www.zyxel.com/dk/da/

Location Examples

Pole Mounting

Wall Mounting

Cat 6e

Power Injector | Power Outlet

Power Outlet | Power Injector

Cat 6e

Smartphone   Laptop   Gateway

PC

⚠ Place the Zyxel Device in an open area free of obstacles, and adjust the angle to point the front panel towards the base station to have the strongest possible 5G NR signal.
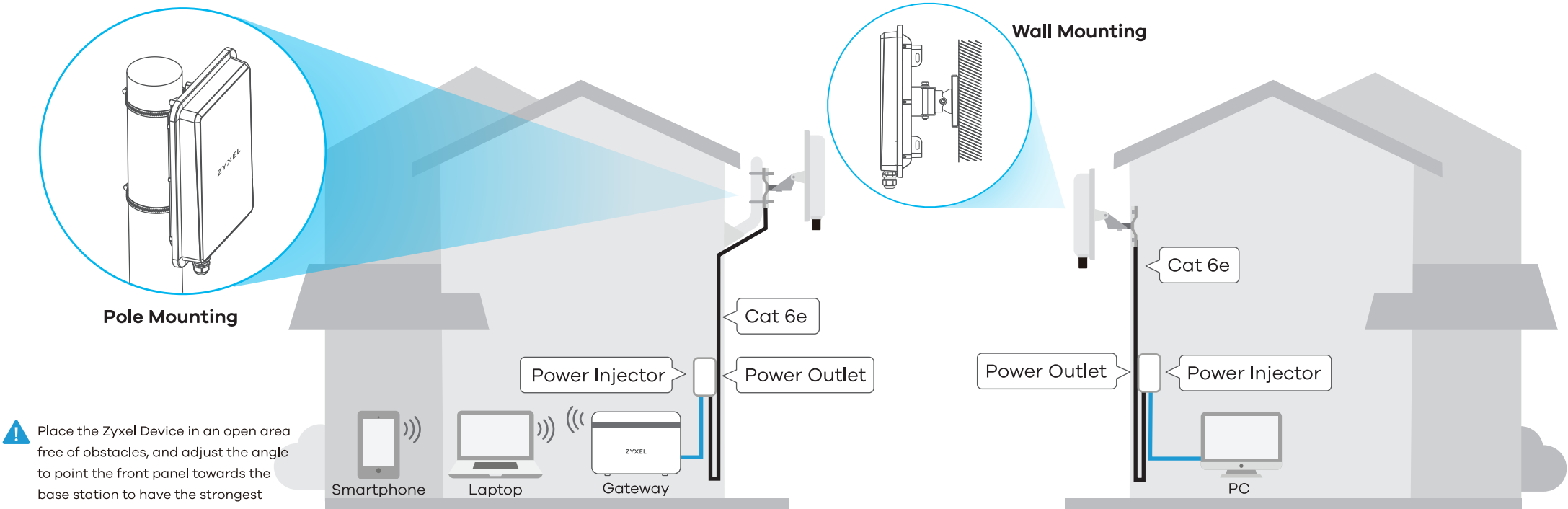
Step 1   SIM Card Installation

LOCK
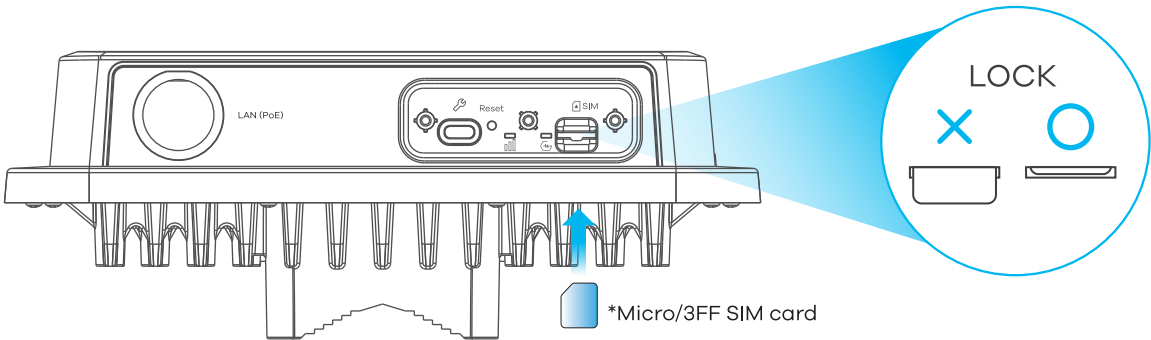
*Micro/3FF SIM card

Make sure there is no Ethernet cable connected providing power using PoE.
Insert your Micro/3FF SIM card provided by a 5G NR SP (Internet Service Provider) into SIM card slot. Make sure the SIM card is fully inserted into the card slot.

Step 2   Ethernet Cable Connection

1 2 3 4

1-4 Follow steps 1 to 4 in the drawing to connect an 8-pin Cat 6e Ethernet cable to the Zyxel Device's **LAN** port.

Step 3   PoE Cable Connections

Power Outlet

PoE Injector

PoE   LAN

Router/Gateway

Status	Green	**Off** - Power is off
		Blinking - Connecting to the Internet
		Steady - Connected to the Internet
	Amber	**Blinking** - WiFi is on but no Internet connection
		Steady - WiFi is on for management
	Red	**Blinking** - Booting
		Steady - Error
	Red Amber Green	**Looping** - Upgrading the firmware
Signal Strength	Green	**Steady** - Good
	Amber	**Steady** - Fair
	Red	**Steady** - Weak

① Connect the other end of the Ethernet cable to the provided PoE injector's **PoE** port.

② Use an Ethernet cable to connect the injector's **LAN** port to a router/gateway for initial configuration.

③ Connect the PoE injector to a power outlet.

④ Check the LEDs next to the SIM card slot.

Step 4   Initial Setup with the Zyxel Air App and WiFi

QR Code
Cancel

Reset   SIM

| Status | Amber | **Steady** - WiFi is on for management |

Note: WiFi is for local management only. If WiFi is turned off automatically, restart the Zyxel Device to enable WiFi.

PoE injector

PoE   LAN

Login address : 192.168.1.1
Username : admin
Password : XXXXXXXXXX

QR Code

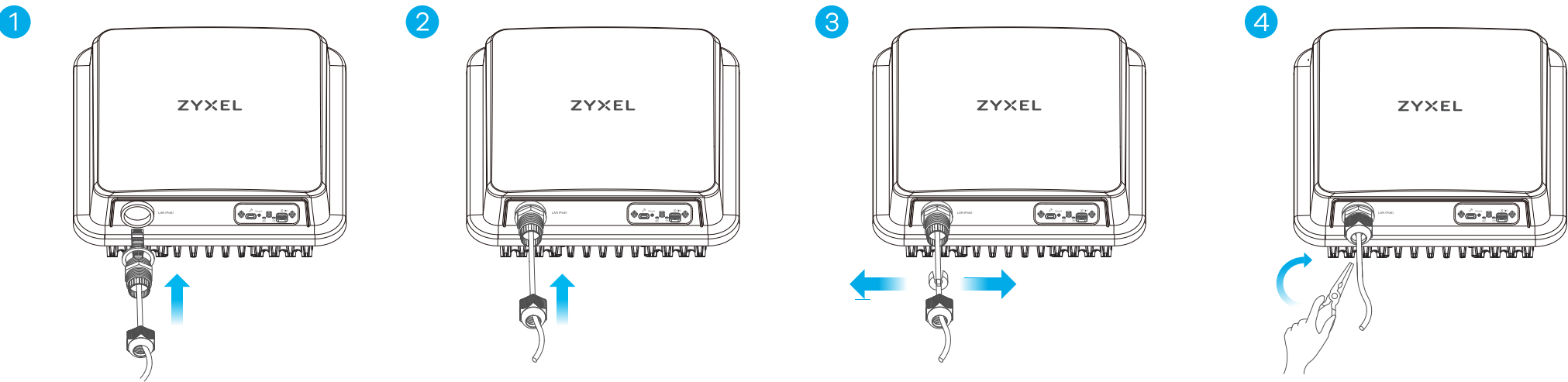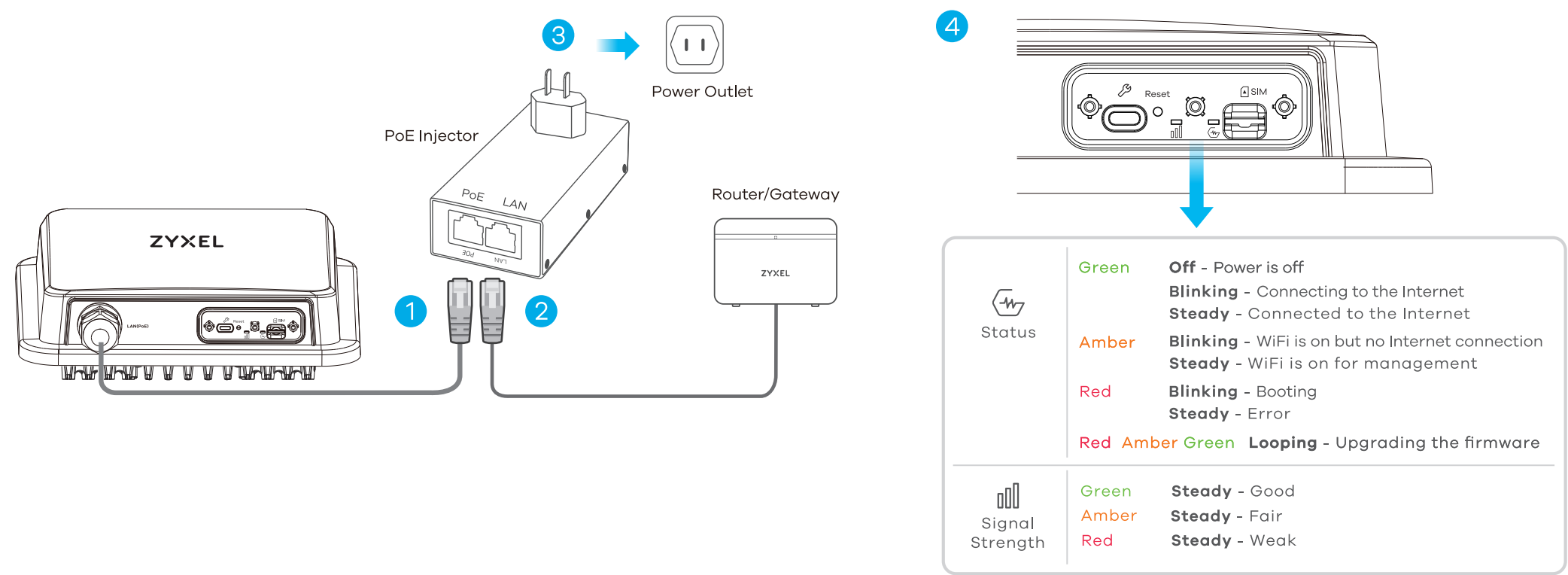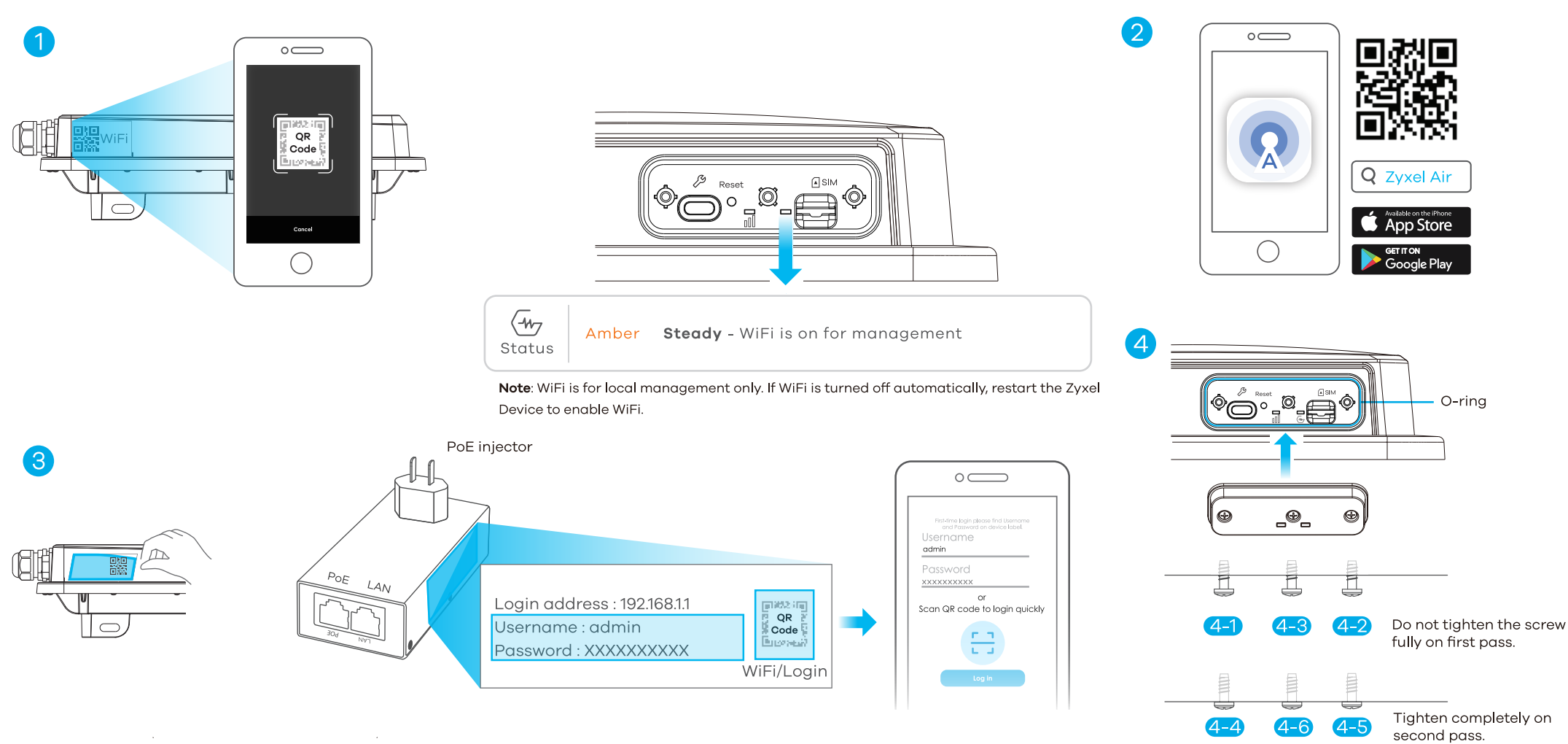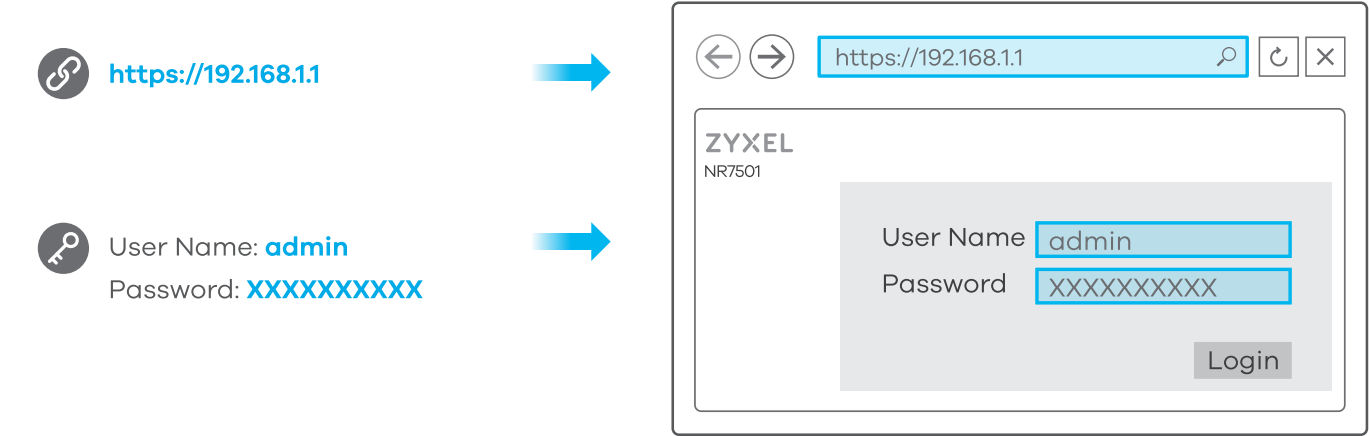WiFi/Login

Username
admin
Password
xxxxxxxxxx
or
Scan QR code to login quickly
Log In

Zyxel Air
Available on the iPhone **App Store**
GET IT ON **Google Play**

O-ring

4-1 4-3 4-2   Do not tighten the screw fully on first pass.

4-4 4-6 4-5   Tighten completely on second pass.

① Scan the QR code on the device label then follow the prompts to connect to the WLAN on your mobile device. If you cannot connect to the Zyxel Device WiFi, check if WiFi is on. If not, press the **RESET** button for 2 seconds to reboot the Zyxel Device to enable WiFi.

② You can download the Zyxel Air app or use the Web Configurator (see next) to manage the Zyxel Device.

③ Remove the label from the side of the Zyxel Device and put it on the injector. Scan the Login QR code to use the default user name and password to log in the Zyxel Air app for the first time.

④ Make sure the o-ring is in the correct position. Screw the SIM card slot cover into place according to the sequence shown. Make sure the cover is in the correct position and tightly screwed to the Zyxel Device.

Configuring Your Zyxel Device with the Web Configurator (Optional)

🔗 **https://192.168.1.1**

🔑 User Name: **admin**
Password: **XXXXXXXXXX**

← → | https://192.168.1.1 | 🔍 | ↻ | ✕

ZYXEL
NR7501

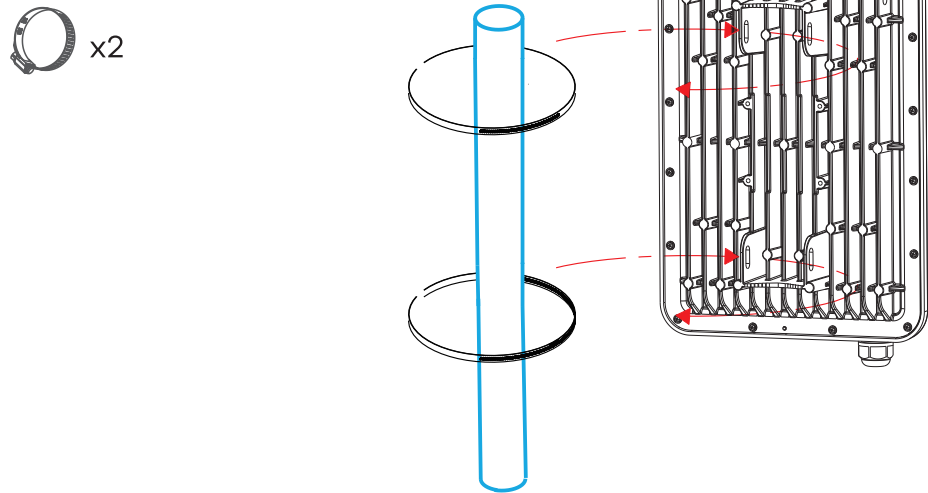User Name | admin
Password | XXXXXXXXXX

Login

Open a web browser and go to https://192.168.1.1. Enter the default user name (admin) and password (see label), and then click **Login**.
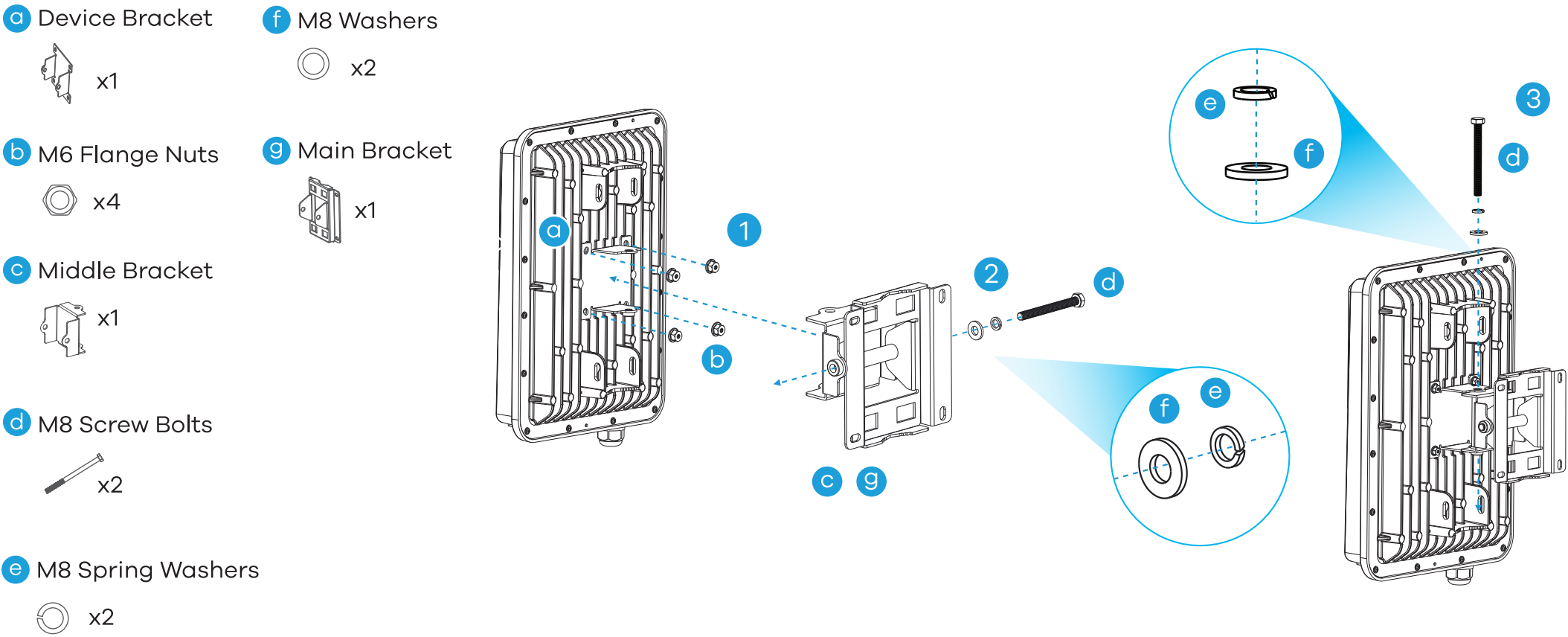Note: After configuring the Zyxel Device, turn its WiFi off.

Mounting Option 1: Pole Mounting

Hose Clamps

x2

Insert the hose clamps into the holes on the Zyxel Device. Use a screwdriver to tighten the hose clamps and secure the Zyxel Device to the pole.

Mounting Option 2: Wall Mounting - Tilt and Turn

ⓐ Device Bracket
x1

ⓑ M6 Flange Nuts
x4

ⓒ Middle Bracket
x1

ⓓ M8 Screw Bolts
x2

ⓔ M8 Spring Washers
x2

ⓕ M8 Washers
x2

ⓖ Main Bracket
x1

① Use flange nuts to attach the device bracket to the back of the Zyxel Device.

② Follow step 2 in the drawing to align the main bracket with the middle bracket. Place the spring washer and washer on the screw bolt and insert the screw bolt through the holes to secure it.

③ Follow step 3 in the drawing to align the middle bracket with the device bracket. Place the spring washer and washer on the screw bolt and insert the screw bolt through the holes to secure it.

④ Follow the steps in **Wall Mounting** to complete the installation.

a Device Bracket
x1

b M6 Flange Nuts
x4

c Main Bracket
x1

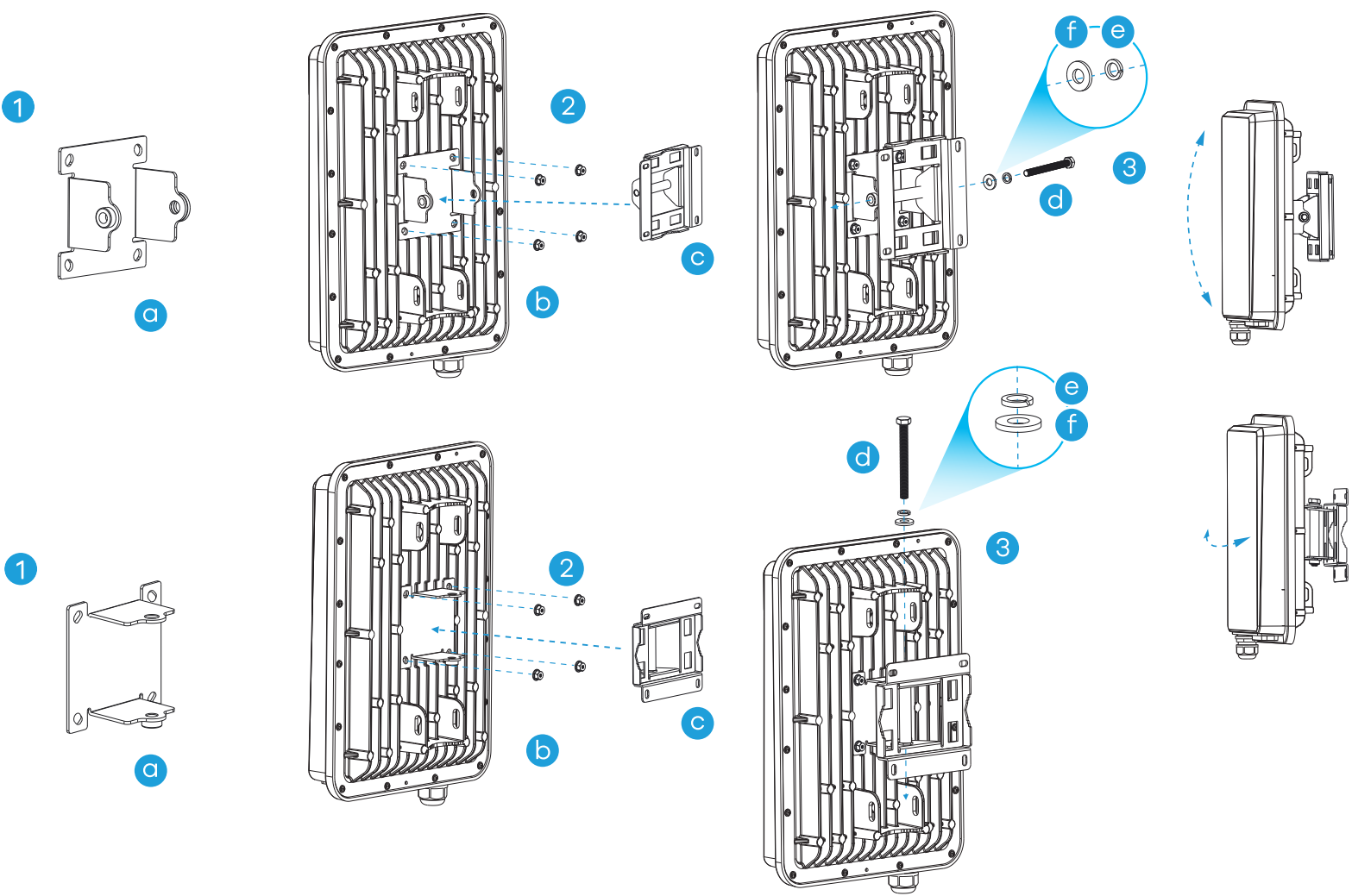**d** M8 Screw Bolt
x1

e M8 Spring Washer
x1

f M8 Washer
x1

① Select the wall mounting direction (horizontal or vertical).

② Use flange nuts to attach the device bracket to the back of the Zyxel Device.

③ Follow step 3 in the drawing to align the main bracket with the device bracket. Place the spring washer and washer on the screw bolt and insert the screw bolt through the holes to secure it.

④ Follow the steps in **Wall Mounting** to complete the installation.

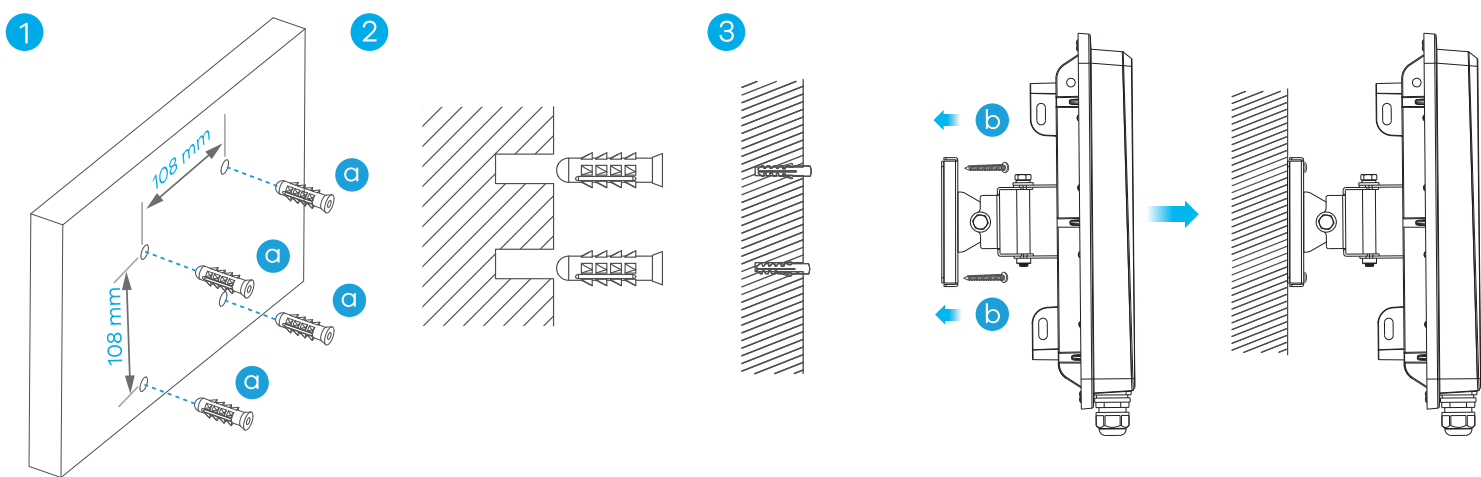## Wall Mounting

a Nylon Wall Plugs
x4

b M4 Tapping Screws
x4

① Use the four corner holes of the main bracket to mark holes on a wall. Drill four holes in a wall.

② Insert the nylon wall plugs into the holes.

③ Use tapping screws to secure the main bracket to the wall through the nylon wall plugs.

Step 5   Wall Mounting Angle Adjustment to Find the Optimal Signal for Zyxel Device

+0°

Vertical
70°

Vertical
-70°

Horizontal
+70°

Horizontal
-70°
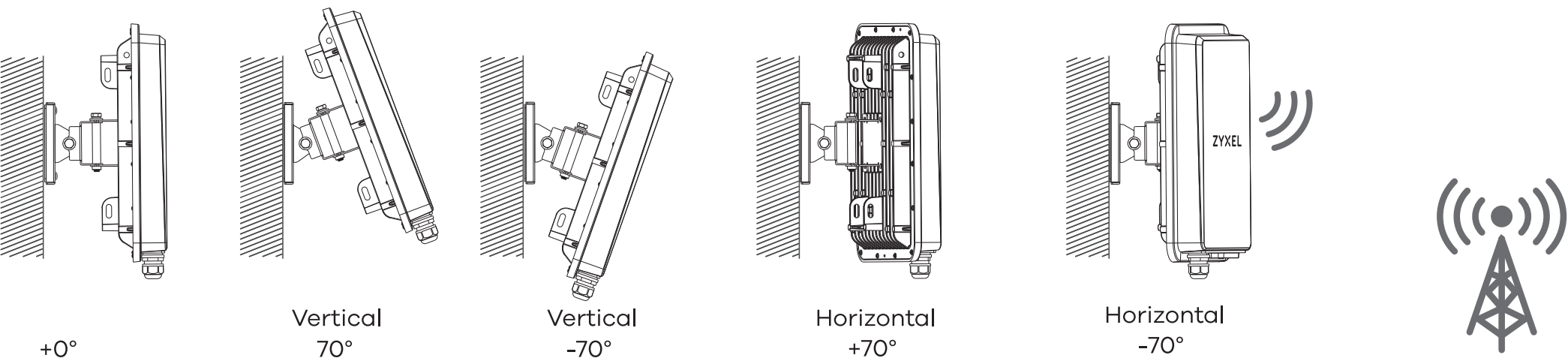
Use the Zyxel Air app to find the optimal 5G NR signal strength and manage your Zyxel Device.