FWA70

Nebula 5G NR Outdoor Router

Quick Start Guide

ENGLISH

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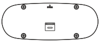
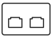
Package Contents

A



SIM Cover
(Bottom Panel)

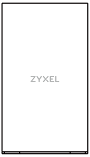


Gigabit PoE Injector

Plug

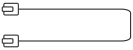
B

Waterproof Plug



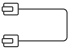
Device

C



Long Ethernet cable
(outdoor)

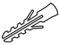
D



Short Ethernet cable
(Indoor)

Mounting Kit

E

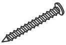


x2

Wall Plugs

F

M4 x 32 mm



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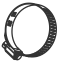
Tapping Screws

G



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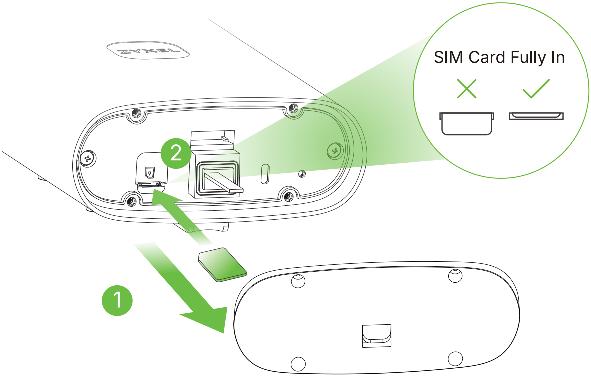
Hose Clamps

Hardware Connections

SIM Card Installation

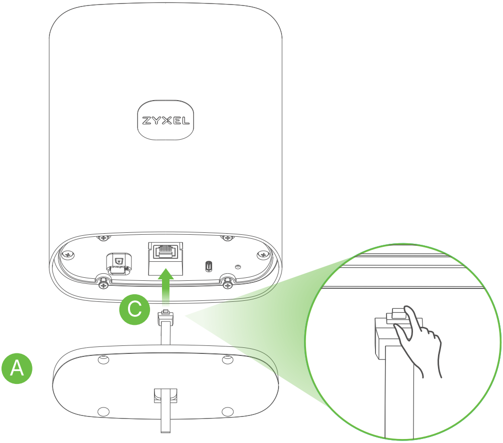


① First, unscrew the SIM cover (bottom panel) from the Zyxel Device.

② Make sure there is no Ethernet cable connected, providing power using PoE. Insert your Nano/4FF SIM card provided by 5G NR ISP (internet service provider) into the SIM card slot. Make sure the SIM card is fully inserted into the slot.

Ethernet Cable Connection

1



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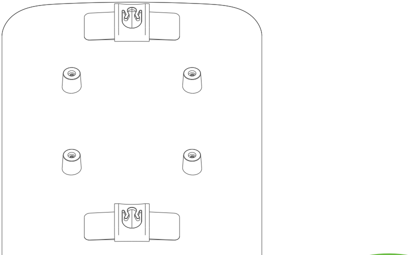

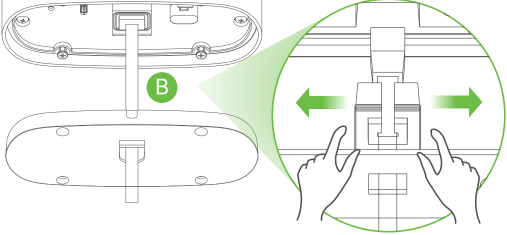

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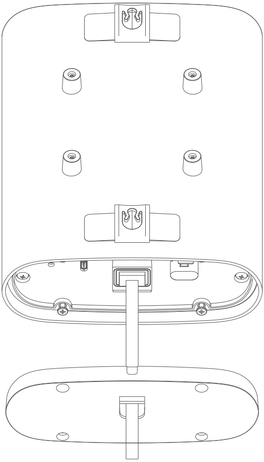

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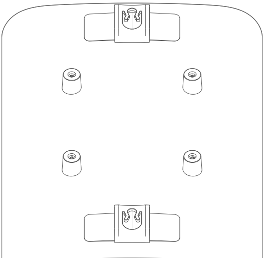
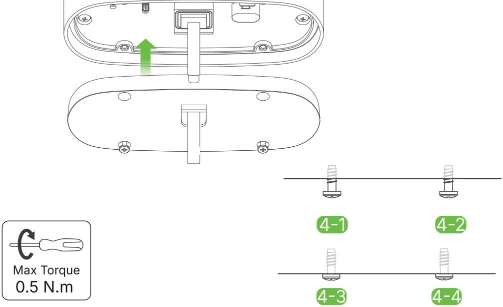




① Press down the tab of the long Ethernet cable Ⓒ and pass it through the SIM cover Ⓐ.

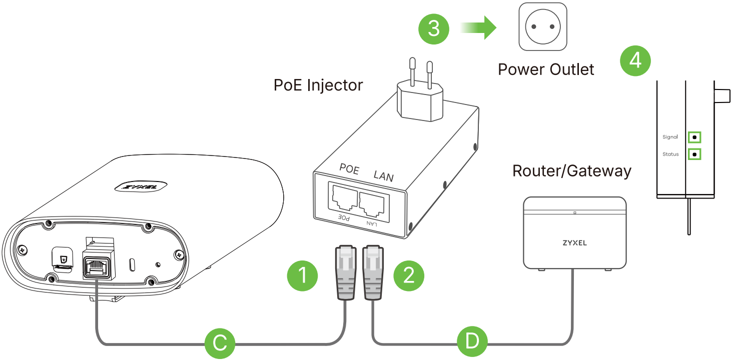
② Turn the Zyxel Device upside down so the mounting side is facing up. Open and attach the waterproof Plug Ⓑ to the long Ethernet cable Ⓒ with the open side facing up.

③ Insert the long Ethernet cable into the LAN (PoE) port of the Zyxel Device and then secure the waterproof plug into place.

④ Finally, screw the SIM cover tightly onto the Zyxel Device.

PoE Cable Connection

⚠ Avoid contact with liquid;
handle with care.



① Connect the other end of the long Ethernet cable Ⓒ to the provided PoE injector's PoE port.
② Use the short Ethernet cable Ⓓ to connect the injector's LAN port to a router/gateway.
③ Connect the PoE injector to a power outlet.
④ Check the LEDs on the side panel.

Meaning of LEDs

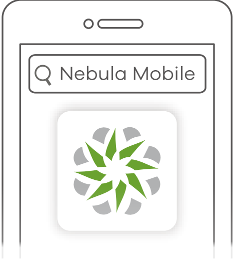
Signal and Status LEDs Indicator Table

Signal	Green	**On** - Good 5G signal
		Blinking - Good 4G signal
	Amber	**Steady** - Fair 5G signal
		Blinking - Fair 4G signal
	Red	**Steady** - Low 5G signal
		Blinking - Low 4G signal
	---	**Off** - Not connected to the Internet
Status	Green	**On** - Connected to the Internet with WiFi off
		Blinking - Trying to connect to the Internet with WiFi off
		Slow - Booting
	Amber	**On** - Connected to the Internet with WiFi on
		Blinking - Trying to connect to the Internet with WiFi on
	Red	**On** - System error
	---	**Off** - Power is off
		All - Upgrading Firmware

Management Options

Nebula Management with the App

Use the Zyxel **Nebula Mobile** app to register the Zyxel Device with the Nebula Control Center (NCC) using the QR code.

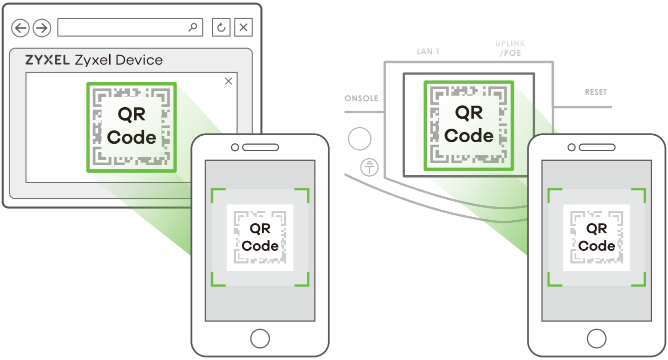


GET IT ON Google Play

Available on the iPhone App Store

Where to find the QR code:

Web Configurator or **Label on the device**



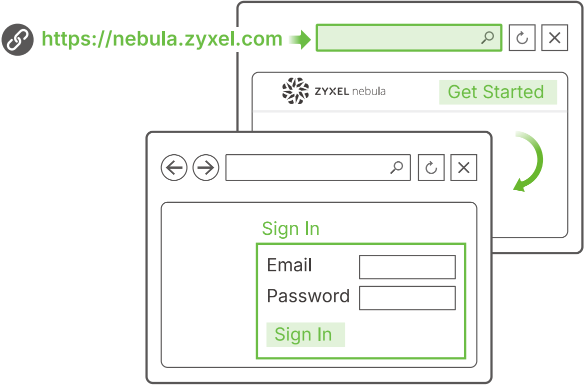
Download and open the Zyxel **Nebula Mobile** app. Log in with your Zyxel Account. Create an organization and site or select an existing site. Scan the Zyxel Device's QR code to add it to the site. (You can find the QR code in its web configurator or on a label on the Zyxel Device or its box.)

Note: The Zyxel Device will go into cloud management mode automatically after it is registered to a site.

Nebula Management with the Web Portal

Use the Zyxel Nebula portal to register the Zyxel Device with the Nebula Control Center (NCC) using the **MAC address** and **serial number**.

1



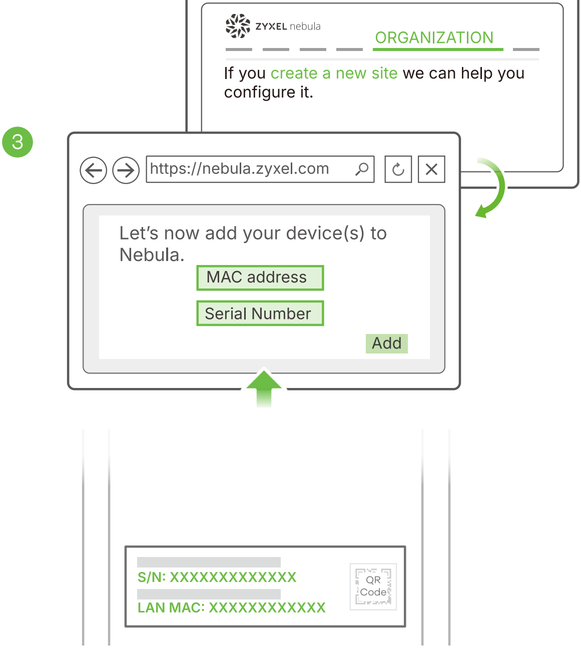
Follow the steps below to manage the Zyxel Device through the Zyxel cloud-based network management system.

Note: Make sure the connected router has Internet access.

① Go to the Zyxel Nebula Control Center (NCC) website (**https://nebula.zyxel.com**). Click **Get Started** to sign up for a Zyxel Account and log in.

2

https://nebula.zyxel.com



If you create a new site we can help you configure it.

Let’s now add your device(s) to Nebula.

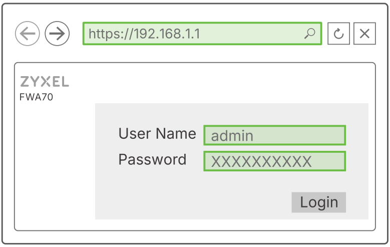
② Create an organization and a site (network) in the NCC.

③ Enter the Zyxel Device's LAN MAC address and serial number (S/N) (see the label on the device) in the NCC configuration screen.
Note: The Zyxel Device will go into cloud management mode automatically after it is registered to a site. See the NCC User's Guide for more information about configuring the Zyxel Device through the NCC.

Direct Management with the Web Configurator

https://192.168.1.1

User Name: admin
Login Password: XXXXXXXXXX



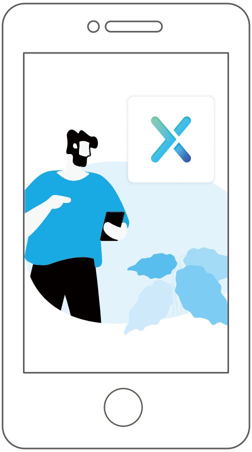
https://192.168.1.1

ZYXEL
FWA70

User Name: admin
Password: XXXXXXXXXX

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**.

Zyxel One App



Scan to Download

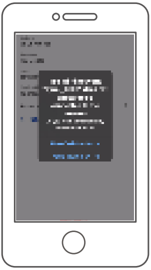
Zyxel One

Available on the iPhone App Store

GET IT ON Google Play

Use the app to set up the Zyxel Device in the best location with optimal signal strength.

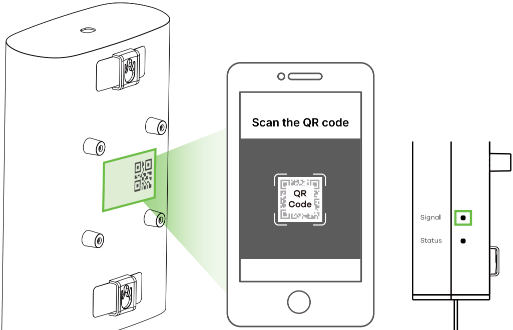
Note: WiFi is for local management only. WiFi turns off automatically after 30 minutes. Restart the Zyxel Device if you need to enable WiFi again.



⚠ If you see a prompt in Zyxel One to choose cellular or WiFi for the Internet connection, choose WiFi.

Initial Setup with the Zyxel One App and WiFi

①



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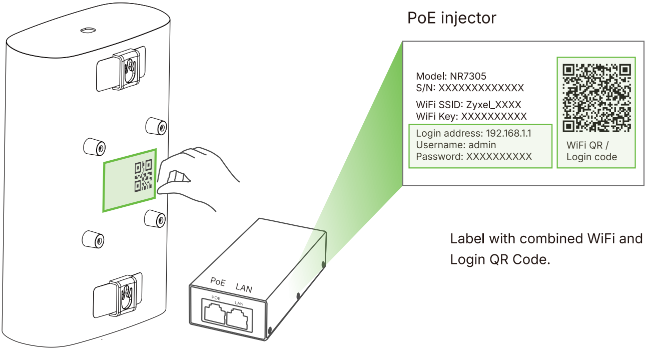


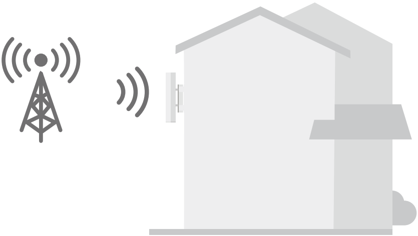
Model: NR7305
S/N: XXXXXXXXXXXXX
WiFi SSID: Zyxel_XXXX
WiFi Key: XXXXXXXXXX
Login address: 192.168.1.1
Username: admin
Password: XXXXXXXXXX

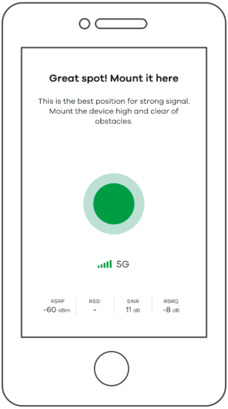
Label with combined WiFi and Login QR Code.

① Use the **Zyxel One** app to scan the QR code on the Zyxel Device label to connect to the Zyxel Device WiFi and log into the **Zyxel One** app with the default username and password. If you can't connect to the Zyxel Device WiFi, check the signal LED to see if WiFi is on (see the LED table). If not, reboot the Zyxel Device to enable WiFi.

② Remove the label from the back of the Zyxel Device and stick it on the PoE injector. As an alternative to the **Zyxel One** app, you can manage the Zyxel Device using your web browser with the Web Configurator.

Find the Optimal Signal with the Zyxel One App





Great spot! Mount it here

This is the best position for strong signal. Mount the device high and clear of obstacles.

5G

RSRP	RSSI	SINR	RSRQ
-60 dBm	-	11 dB	-8 dB

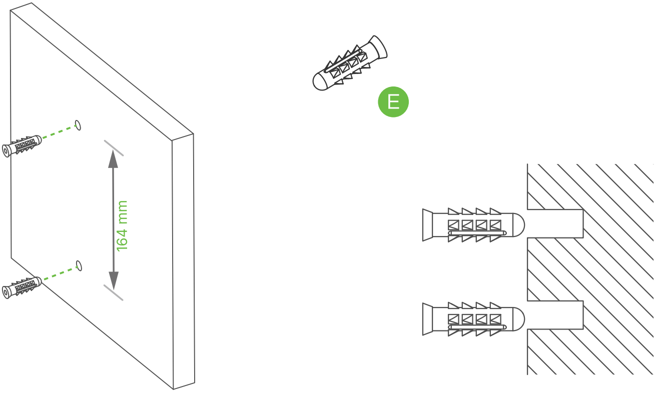
Before mounting your Zyxel Device, find the location that receives the best signal.

Mounting Options

Wall Mounting

1

2



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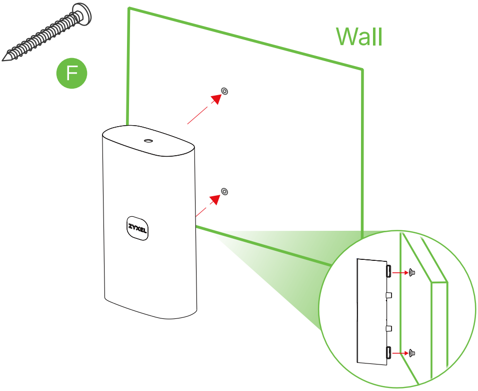


① Using the Zyxel Device, mark 2 points on the wall at a distance of 164 mm and drill the appropriate holes.

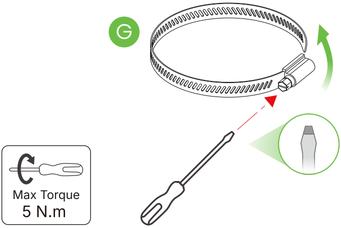
② Insert the wall plugs Ⓔ and secure the M4 tapping screws Ⓕ

into the drilled holes.

③ Hang the Zyxel Device securely on the M4 tapping screws F.

Pole Mounting

1



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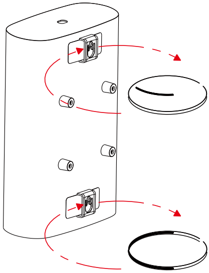

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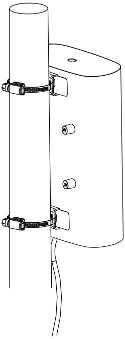


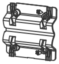
① Wear protective gloves when using the hose clamps Ⓖ. First, use a 5 mm flathead screwdriver to open the hose clamps.

② Then, put a hose clamps Ⓖ through the mounting hole on the back of the Zyxel Device and around the pole. Use a 5 mm flathead screwdriver to loosely close the hose clamp. Repeat steps 2 and 3 for the second hose clamp.

③ Use the app to find the best height and angle of the Zyxel Device so that it receives the best signal. Then, tighten the hose clamps Ⓖ to secure the Zyxel Device to the pole.

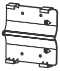
Advanced Wall Mounting (Optional)

ⓐ Device Bracket



x1

ⓑ Wall Bracket



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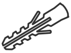
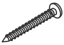
ⓒ Wall Plugs



x4

ⓓ M4 Tapping Screws



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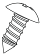
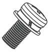
ⓔ M3 Tapping Screw



x1

ⓕ Round Head Screws



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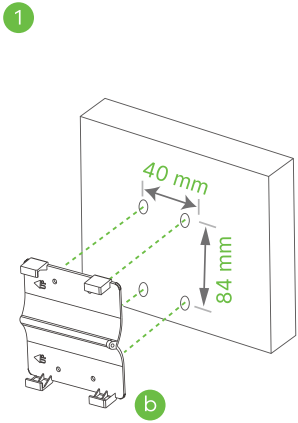

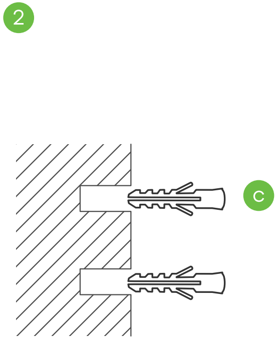

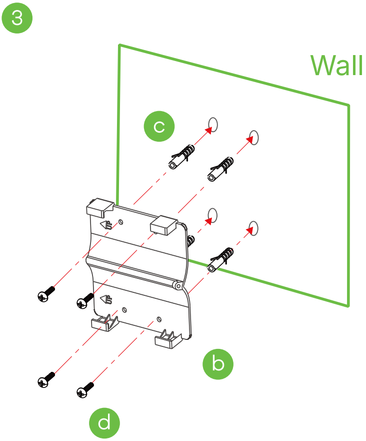

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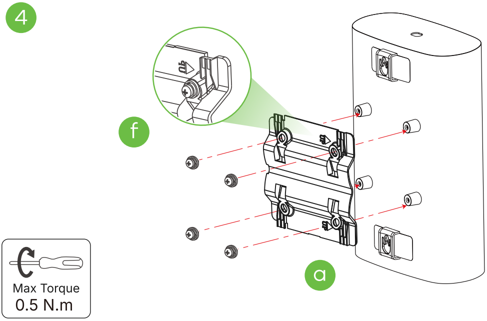

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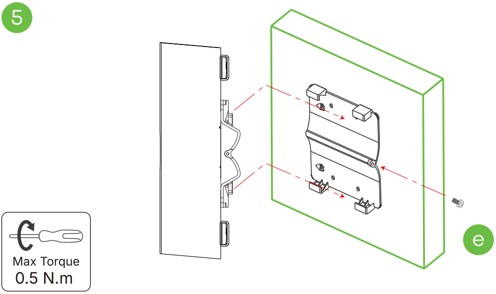


① Using the wall bracket ⓑ, mark four points on the wall and drill the appropriate holes.

② Insert the four wall plugs ⓒ into the drilled holes.

③ Use the M4 tapping screws ⓓ to secure the wall bracket with the **UP** label on the left ⓑ to the wall.

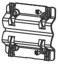
④ Use the round head screws with spring and plain washer ⓕ to attach the device bracket ⓐ to the back of the Zyxel

Device.

⑤ Place the Zyxel Device so the device bracket ⓐ lines up with the wall bracket ⓑ and slide gently from the left. Use the M3 tapping screw ⓔ to secure the device bracket to the wall bracket through the hole on the right.

Advanced Pole Mounting (Optional)

ⓐ Device Bracket

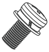


x1

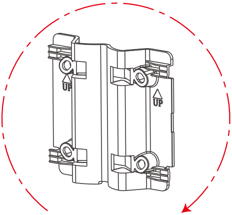
ⓒ Hose Clamps

x2

ⓑ Round Head Screws



x4



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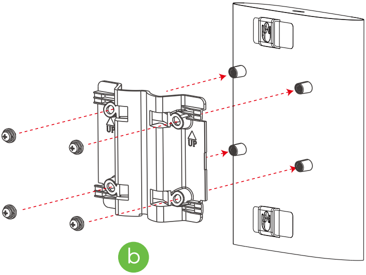
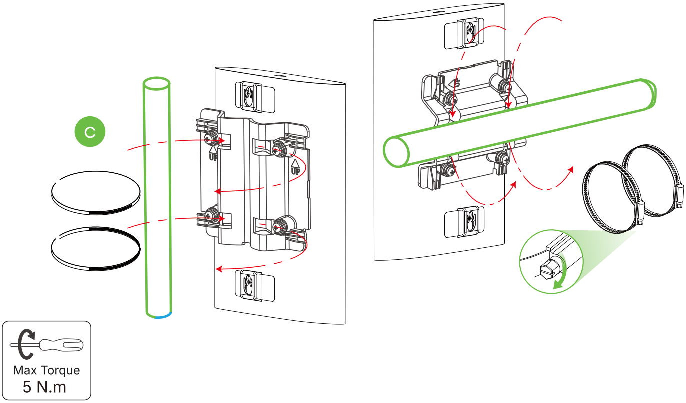


ⓑ

Max Torque
0.5 N.m



① Select the mounting direction based on the pole type (horizontal or vertical).

② Use the four round head screws with spring and plain washer ⓑ to attach the device bracket ⓐ to the back of the Zyxel Device.

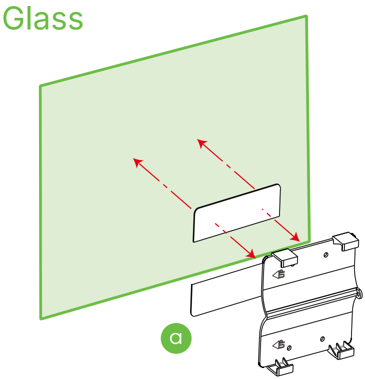
③ Insert the hose clamps ⓒ into the holes on the device bracket ⓐ.

④ Now follow the instruction ❸ from the pole mounting description to securely attach the Zyxel Device to the pole.

Glass Mounting (Optional)

ⓐ Residue-free Sticky Tape

x2



① Thoroughly clean the glass area and back of the wall bracket where you want to attach the residue-free sticky tape.

② Remove the adhesive backing protection and attach the residue-free sticky tape ⓐ to the back of the wall bracket. Remove the backing from the self-adhesive front and stick the wall bracket with the **UP** label on the left onto the glass.

Note: Make sure the glass surface is clean and dry before putting on the residue-free sticky tape.
Please wait a minimum of 20 minutes for 50% adhesion, and ideally 72 hours for 100% adhesion, before attaching the Zyxel Device.

③ Now follow instructions ❹ and ❺ from the advanced wall mounting description to securely attach the Zyxel Device to the wall bracket.

Support Information

EU

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Zyxel Community

🗔 https://community.zyxel.com

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

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

UK Importer
Zyxel Networks UK
2 Old Row Court, Rose Street, Wokingham, RG40 1XZ, United Kingdom (UK)
https://www.zyxel.com/uk/en/

US Importer
Zyxel Communications, Inc.
1130 North Miller Street Anaheim, CA 92806-2001
https://www.zyxel.com/us/en/

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