



# QUANTUM QN-I-270 Networks Access Point User Guide

[Home](#) » [quantum](#) » QUANTUM QN-I-270 Networks Access Point User Guide 



**Networks Access Point  
Quick Setup Guide  
Model: QN-I-270**

## Contents

- [1 QN-I-270 Networks Access Point](#)
- [2 Glossary](#)
- [3 Icon description](#)
- [4 Before you begin](#)
- [5 Reset Access Point to factory defaults](#)
- [6 FCC statement](#)
- [7 Documents / Resources](#)
  - [7.1 References](#)





## QN-I-270 Networks Access Point

This Quick Setup Guide provides step-by-step instructions on how to set up Quantum® Networks Access Point. After completing the steps described in this Guide, you will be able to install the Access Point (AP) on-site and provide wireless network access to users.

## Glossary

Feature	Description
Management Mode	<p>Standalone: In this mode, each device is configured and managed individually . It can be useful in scenarios with few devices or sites with limited Internet access.</p> <p>RUDDER: In this mode, devices are configured and managed from a central controller hosted in the cloud. It offers many more sets of features as compared to the Standalone mode.</p>
Operation Mode	<p>Bridge: In this mode, the device connects to a network over an ethernet cable and extends the coverage over wireless.</p> <p>Router: In this mode, the device connects to Internet Service Provider directly using DHCP / Static IP / PPPoE protocols and shares Internet access over a wired or wireless network to users.</p>
Quantum® RUDDER	Quantum® RUDDER is a cloud-hosted controller which can be used to configure, manage & monitor devices associated with it. It can be accessed from <a href="https://ruddercintmnet.com">https://ruddercintmnet.com</a>

## Icon description

Icon on GUI	Description
	Click to get the option for the firmware update.
	Click to get back to the home page.
	Click to check the documentation.
	Click to check device information.

## Before you begin

Your Quantum® Networks Access Point can work in “Standalone Mode” or can be managed by “RUDDER”.

### Package contents

- Access Point.

### Prerequisites

- Internet access.
- Desktop / Laptop / Handheld device.
- 802.3af / 802.3at PoE Switch / PoE Injector.
- 48VDC 2A DC power adapter.

### Network requisites

The listed ports must be opened or allowed in the network firewall.

- TCP: 80, 443, 2232, 1883.
- UDP: 123, 1812, 1813.
- Allow rudder.qntmnet.com and reports.qntmnet.com in the destination field.

## Connect Access Point

- After unpacking Access Point, connect it to an Internet source.
- Plug-in Ethernet cable of Access Point.
- Power on Access Point by using 802.3af / 802.3at PoE Switch / PoE Injector.

**Note:** Access Point must have Internet access during initial setup for the first time to activate the device, warranty and support.

### Step 1 – Create new account on Quantum® RUDDER

- Browse <https://rudder.qntmnet.com>.
- Click “Create New Account” to sign up for a new account.

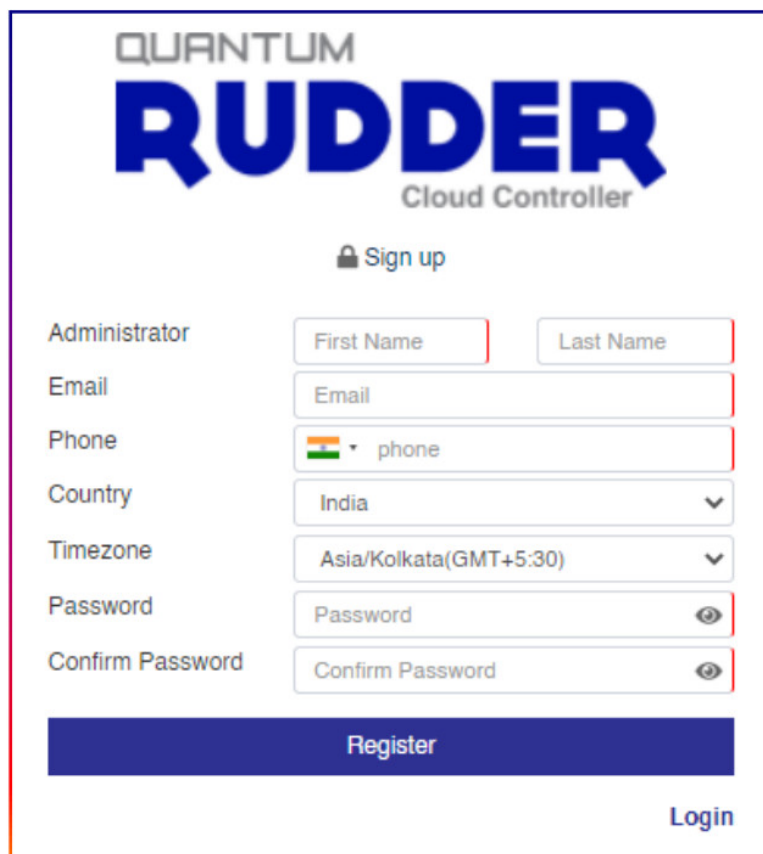


Figure 1

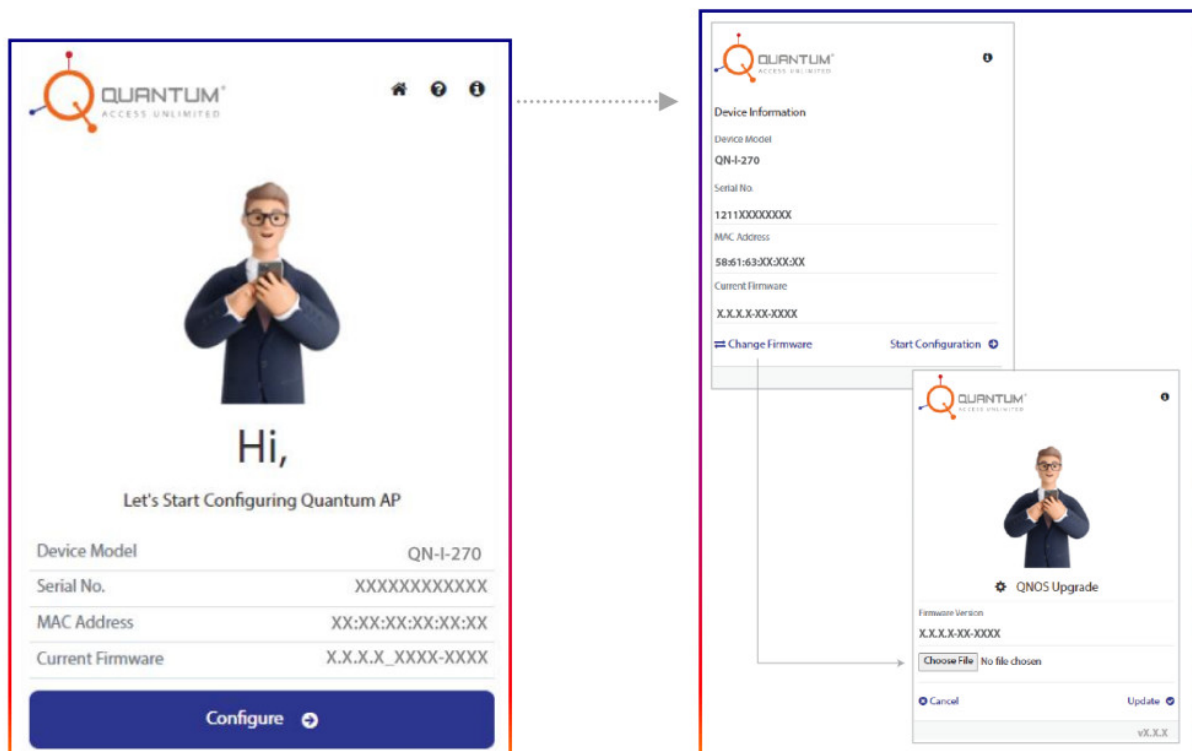
- Follow the steps as guided on the screen for Registration.
- Verify Quantum® RUDDER account from registered email id.
- Once the account gets validated, it turns the page to “Add License Key” (User will get the license key from respective (Partner / Resource))
- Account on Quantum® RUDDER (Quantum Networks® Cloud Controller) is now ready to use.

### Step 2- Basic setup

- Connect the WAN port of the Access Point to the network with Internet access.
- You should see a new wireless network with SSID QN\_XX:XX (where XX:XX are the last four digits of Access

Point MAC Address).

- Connect to QN\_XX:XX SSID and browse Access Point's default IP "169.254.1.1".



Let's start the configuration.

On the configuration start page, it will display,

- Device model number
- Serial number
- MAC address
- Current firmware

**Note:**

- Click **i** button to get the option to "change the firmware" if required.
- Click Change Firmware to update firmware if required. Select the firmware file from the respective location and update it.

**Step 3- Setting up device IP address**

Click "Configure" and set the device IP address by selecting the required options.

- Connectivity Mode – Ethernet / USB
- Protocol – DHCP, Static or PPPoE
- Interface – Select interface
- VLAN Assignment- Enable parameter. Enter VLAN ID and click "Fetch IP Address" to get the respective IP in case of VLAN setup is required.

**Quantum®**  
ACCESS UNLIMITED

Device IP Address

Connectivity Mode  
Ethernet

Protocol  
DHCP

Interface  
eth0

VLAN Assignment  
☐ Fetch IP Address

IP  
192.168.7.40

Subnet  
255.255.255.0

Gateway  
192.168.7.1

Primary DNS  
192.168.7.4

Secondary DNS  
4.2.2.2

Back Proceed

vX.X.X

Figure 3

Click "Proceed" to apply configuration and turn to the next page.

#### Step 4 – Set the management mode

##### Management Mode

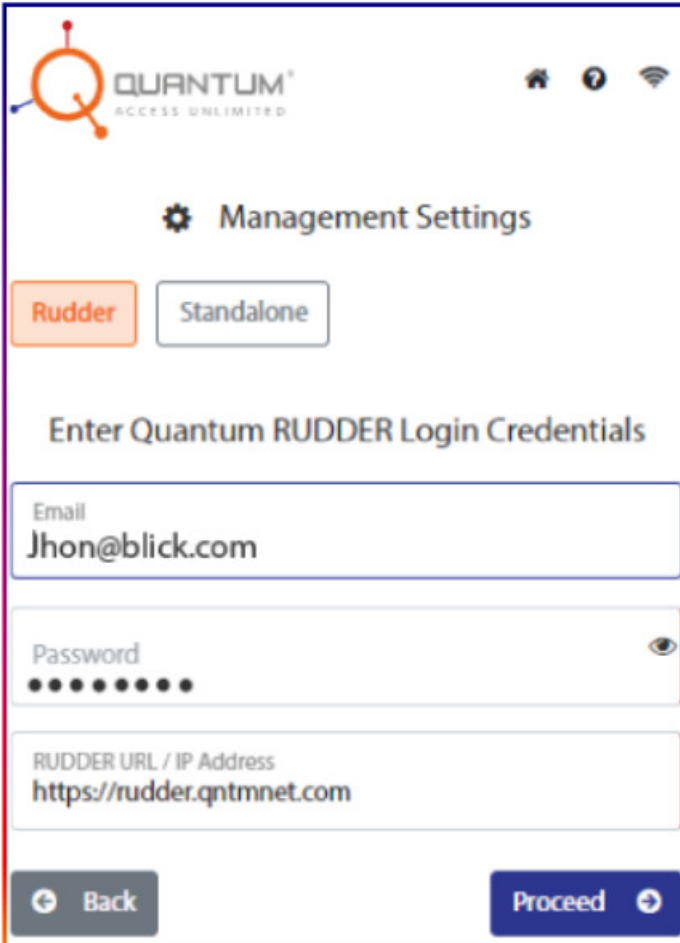
Quantum® Networks Access Point can be configured in two modes:

##### **RUDDER (on cloud / on-premise)**

Centralized management of Access Points using Quantum® RUDDER

##### **Standalone**

Independent management of each Access Point



Quantum<sup>®</sup>  
ACCESS UNLIMITED

Management Settings

Rudder Standalone

Enter Quantum RUDDER Login Credentials

Email  
Jhon@blick.com

Password  
●●●●●●●●

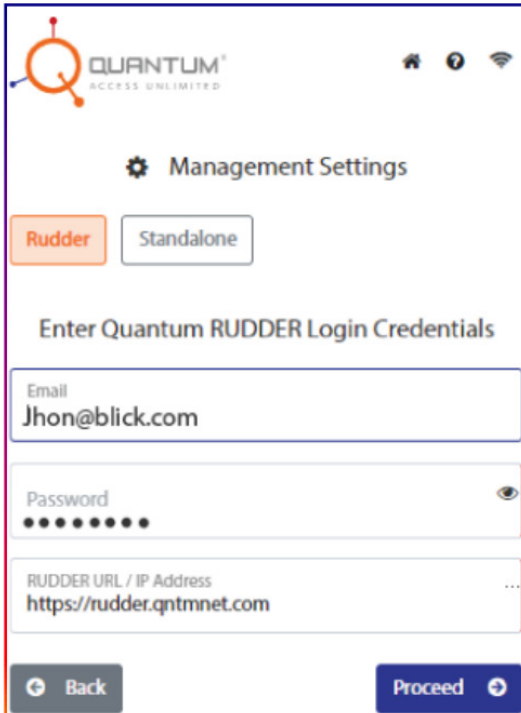
RUDDER URL / IP Address  
https://rudder.qntmnet.com

Back Proceed

Figure 4

#### Step 5 – Access Point quick setup inRUDDER Mode

- Select “Management Mode” as “RUDDER”, enter Quantum® RUDDER login credentials and click “Proceed”.



Quantum<sup>®</sup>  
ACCESS UNLIMITED

Management Settings

Rudder Standalone

Enter Quantum RUDDER Login Credentials

Email  
Jhon@blick.com

Password  
●●●●●●●●

RUDDER URL / IP Address  
https://rudder.qntmnet.com

Back Proceed

In the case of on-premise RUDDER, mention the local server IP Address/URL assigned to RUDDER, here.

Figure 5

- It will verify the credentials, and turn to a next page.

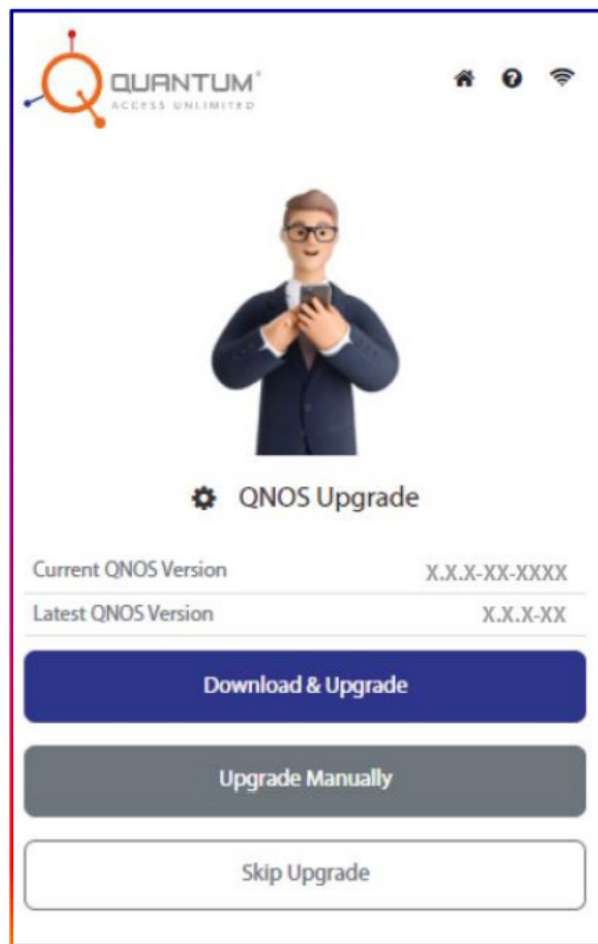


Figure 6

- Upgrade QNOS version by either downloading from the cloud or by selecting manually from respective location and upgrade or click “Skip Upgrade” to move further.
- The user will turn to a page where the user has to select the site and AP group.

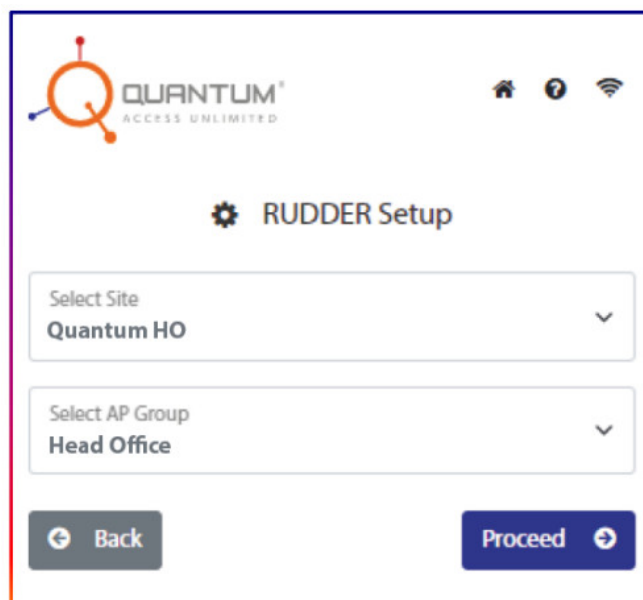
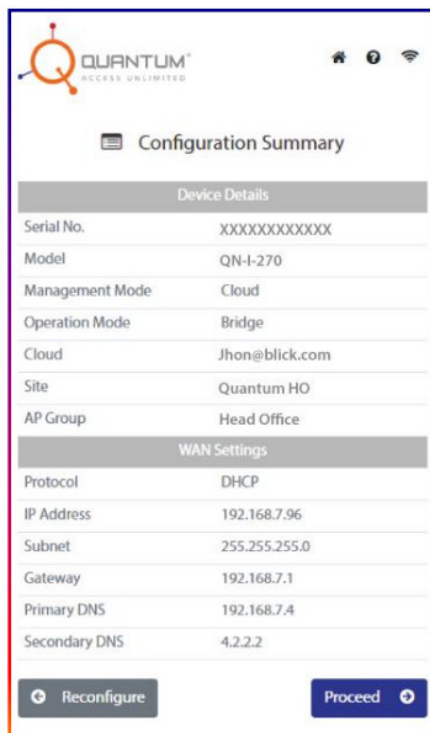


Figure 7

- Select RUDDER site and AP Group where Access Point's needs to be added and click “Proceed”.
  - o If the selected site is already having another Access Point, it will automatically configure AP in a bridge mode and will turn the user on the summary page after clicking “Proceed”. (Figure 8)
  - o If this is the first Access Point for the selected site – the user will turn on the page, where the user can select Access Point Operation mode as Bridge or Router. (Figure 9)



**Configuration Summary**

Device Details	
Serial No.	XXXXXXXXXXXX
Model	QN-I-270
Management Mode	Cloud
Operation Mode	Bridge
Cloud	Jhon@blick.com
Site	Quantum HQ
AP Group	Head Office

WAN Settings	
Protocol	DHCP
IP Address	192.168.7.96
Subnet	255.255.255.0
Gateway	192.168.7.1
Primary DNS	192.168.7.4
Secondary DNS	4.2.2.2

Reconfigure Proceed

Figure 8



**Operation Mode**

Bridge Router

In Bridge Mode, device connects to the network by ethernet cable and extends the wireless coverage of existing network.

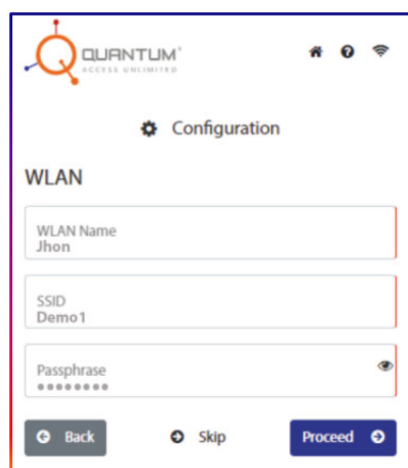
Back Proceed

Figure 9

## Bridge

- Select option Bridge and click “Proceed”.
- Configure WLAN (SSID) parameters and click “Proceed”.

Parameter	Value
WLAN Name	Define a name for the network
SSID	Define visible wireless network name
Passphrase	Configure a passphrase for SSID



**Configuration**

**WLAN**

WLAN Name  
Jhon

SSID  
Demo1

Passphrase  
\*\*\*\*\*

Back Skip Proceed

Figure 10

**Note:** If you do not want to create **WLAN** (SSID)/**LAN** now, click the **Skip** option. It will turn to **Configuration Summary**.



**QUANTUM**  
ACCESS UNLIMITED

**Configuration Summary**

Device Details	
Serial No.	XXXXXXXXXXXX
Model	QN-I-270
Management Mode	Cloud
Operation Mode	Bridge
Cloud	Jhon@blick.com
Site	Quantum HO
AP Group	Head Office

WAN Settings	
Protocol	DHCP
IP Address	192.168.7.96
Subnet	255.255.255.0
Gateway	192.168.7.1
Primary DNS	192.168.7.4
Secondary DNS	4.2.2.2

WLAN Details	
WLAN	Jhon
SSID	Demo1
Radio	2.4 GHz, 5 GHz
Encryption	WPA2
Algorithm	AES
Passphrase	*****

Figure 11

- Review the Configuration Summary. Click “Reconfigure” if any changes are required or click “Proceed” to complete the configuration.

## Router

- Select option Router and click “Proceed”.
- Configure WLAN (SSID) and Local subnet parameters and click “Proceed”.

Parameter	Value
WLAN	
WLAN Name	Define a name for the network
SSID	Define visible wireless network name
Password	Configure passphrase for SSID
Local Subnet	
IP Address	LAN IP address. This IP address can be used for accessing this Access Point
Subnet Mask	LAN Subnet mask

**Configuration**

**WLAN**

WLAN Name  
Jhon

SSID  
Demo1

Passphrase  
\*\*\*\*\*

**Local Subnet**

IP Address  
192.168.7.60

Subnet  
255.255.255.0

Back Skip Proceed

Figure 12

**Configuration Summary**

Device Details	
Serial No.	XXXXXXXXXXXX
Model	QN-I-270
Management Mode	Cloud
Operation Mode	Router
Cloud	Jhon@blick.com
Site	Quantum HO
AP Group	Head Office

WAN Settings	
Protocol	DHCP
IP Address	192.168.7.96
Subnet	255.255.255.0
Gateway	192.168.7.1
Primary DNS	192.168.7.4
Secondary DNS	4.2.2.2

Local Subnet	
Name	Default
IP	192.168.7.60
Subnet	255.255.255.0

WLAN Details	
WLAN	Jhon
SSID	Demo1
Radio	2.4 GHz, 5 GHz
Encryption	WPA2
Algorithm	AES
Passphrase	*****

Reconfigure Proceed

Figure 13

**Note:** If you do not want to create WLAN (SSID)/LAN now, click the Skip option. It will turn to Configuration Summary.

- Review the Configuration Summary. Click “Reconfigure” if any changes are required or click “Proceed” to complete the configuration.

## Step 6 – Access Point quick setup in standalone mode

**Management Settings**

Rudder Standalone

**Set AP Login Credentials**

Username  
Jhon

Password  
\*\*\*\*\*

Figure 14

- Select “Management Mode” as “Standalone” if each Access Point is to be configured and managed individually. Define username and password for the device and click “Proceed”.
- User can select Access Point Operation mode as Bridge or Router.



Figure 15

## Bridge

- Select option Bridge and click “Proceed”.
- Configure WLAN (SSID) parameters and click “Proceed”.

Parameter	Value
Country	Select country for radio management.
Timezone	Select time zone for RUDDER management.
WLAN Name	Define a name for the network.
SSID	Define visible wireless network name.
Passphrase	Configure a passphrase for SSID.

- Review the Configuration Summary. Click “Reconfigure” if any changes are required or click “Proceed” to complete the configuration.

Figure 16

Figure 17

## Router

- Select option Router and click “Proceed”.
- Configure WLAN (SSID) and Local subnet parameters and click “Proceed”.

Parameter	Value
WLAN	
Country	Select country for radio management.
Timezone	Select time zone for RUDDER management.
WLAN Name	Define a name for the network.
SSID	Define visible wireless network name.
Password	Configure a passphrase for SSID.
Local Subnet	
IP Address	LAN IP address. This IP address can be used for accessing this Access Point.
Subnet Mask	LAN subnet mask.

- Review the Configuration Summary. Click “Reconfigure” if any changes are required or click “Proceed” to complete the configuration.

Quantum ACCESS UNLIMITED

Configuration

**General**

Country: India

Timezone: Asia/Kolkata

**WLAN**

WLAN Name: Jhon

SSID: Demo1

Passphrase: \*\*\*\*\*

**Local Subnet**

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Back Proceed

Figure 18

Quantum ACCESS UNLIMITED

Configuration Summary

Device Details	
Serial No.	XXXXXXXXXXXX
Management Mode	Standalone
Operation Mode	Router

WAN Settings	
Protocol	DHCP
IP Address	192.168.7.96
Subnet Mask	255.255.255.0
Gateway	192.168.7.1
Primary DNS	192.168.7.4
Secondary DNS	4.2.2.2

Local Subnet	
Name	LAN
IP	192.168.1.1
Subnet	255.255.255.0

WLAN Details	
WLAN	Jhon
SSID	Demo
Radio	2.4 GHz, 5 GHz
Passphrase	*****

User Details	
Username	Jhon
Password	*****

Reconfigure Proceed

Figure 19

## Reset Access Point to factory defaults

- Power on the Access Point
- Push the reset button on the back panel and hold it for 10 seconds.
- Access Point would restart with factory defaults

## Access Point default login detail

With standalone mode:

**User Name:** Created while doing "Quick Setup"

**Password:** Created while doing "Quick Setup"

With RUDDER mode:

**User Name:** Auto Generated, administrator can change from site settings.

**Password:** Auto Generated, administrator can change from site settings.

If you encounter problems while installing or using this product, please browse [qntmnet.zengroup.co.in](http://qntmnet.zengroup.co.in)

- Direct contact with the support center.
  - o Contact: 18001231163
  - o Email: [support@qntmnet.com](mailto:support@qntmnet.com)
- Frequently Asked Questions (FAQ)
- Download area for the latest software, user documentation and product updates.

## FCC statement

### FCC Class B

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 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.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: **(1)** This device may not cause harmful interference, and **(2)** this device must accept any interference received, including interference that may cause undesired operation. For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible. This device is restricted for indoor use.

**IMPORTANT NOTE:** 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 24 cm between the radiator and your body.

### **Professional Installation Instructions**

#### **1. Installation personnel**

This product is designed for specific applications and should be installed by qualified personnel who have knowledge of RF and its related regulations. A general user shall not attempt to install or modify the equipment configuration.

#### **2. Installation location**

To meet regulatory RF exposure requirements, this product shall be installed at a location where, during normal operations, the radiating antenna is at least 24 cm away from any nearby persons.

#### **3. Installation procedure**

Please refer to this equipment's user manual for the procedure details.

#### **4. Warning**

The installation position must be carefully selected so that the final output power does not exceed the limit set forth in relevant regulations. Violation of output power regulations could lead to serious federal penalties.



**ZENEXIM**  
[quantum.zengroup.co.in](http://quantum.zengroup.co.in)

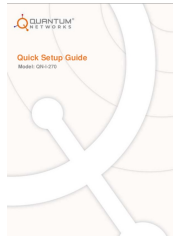
**Manufactured in India by:**

Zen Exim Pvt. Ltd

**Reg. office**

2nd Floor, Shakti 404, Opp. New Gurudwara,  
S.G. Highway, Ahmedabad -380054 | Gujarat | India

### **Documents / Resources**



[QUANTUM QN-I-270 Networks Access Point](#) [pdf] User Guide  
2BAKF-QN-I-270, 2BAKFQNI270, QN-I-270, QN-I-270 Networks Access Point, Networks Access Point, Access Point

## References

- [Quantum Network](#)

Manuals+.