

# DIGISOL<sup>®</sup>

**INDIA'S OWN  
IT NETWORKING  
CHOICE** 

## Quick Installation Guide

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# **XPON ONU 300Mbps Wireless Router with 1 PON & 1 GE + 1 FE LAN Port**

## **DG-GR1321-NV**

INDIA  
ER NO. : TEC14762301  
MODEL NO. : DG-GR1321-NV  
CERTIFICATE NO. : 147600340  
COUNTRY OF ORIGIN : INDIA  
COUNTRY OF MANUFACTURING : INDIA



V1.2  
22-09-2025

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# Overview

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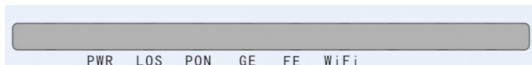
## 1:1 Product Description

Thank you for choosing DG-GR1321-NV ONU. The device is based on mature GPON and Gigabit EPON technology, which has a high ratio of performance to price, and supports 802.11 (b/g/n) Wireless technology. They are highly reliable and easy to configure. DG-GR1321-NV is a dual mode ONU which can detect and exchange PON mode automatically.



Figure 1

## 1:2 Panel Lights



LED	Mark	Status	Description
Power	PWR	On	The device is powered up.
		Off	The device is powered down.
Optical signal loss	LOS	Off	The device has received optical signal.
		Blink	The device does not receive optical signal.
Registration	PON	On	The device is registered to the PON system.
		Off	The device is not registered to the PON system.
		Blink	The device is registering.
Interface	GE/FE	On	Port is connected properly (LINK).
		Off	Port is not connected properly.
		Blink	Port is sending or/and receiving data (ACT).
Wi-Fi	Wi-Fi	On	Wi-Fi is turned on.
		Off	Device is powered off or Wi-Fi is turned off.
		Blink	Wi-Fi is turned on with ongoing data transmission.

### 1:3 Interface / Button Panel



Figure 2

Name	Function
ON/OFF	Power switch.
DC12V	Connect with power adapter DC 12V, 1A.
RST	Press RST button over 10 seconds, ONU restores to factory default and reboots.
FE / GE	Connect PC or other devices to the Ethernet port via Cat cables, RJ-45 connector.

## 2. Packing List

Contents	Function	Contents	Quantity
Dual Mode ONU	1 Pc.	Power Adapter	1 Pc.
Installation Guide	1 Pc.		

# ***Hardware Installation***

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## **3.1 Installation Environment Requirements**

ONU device must be installed indoors and ensure that the following conditions are met :

- Confirm that there is sufficient space for ONU installation to facilitate cooling of the device.
- ONU is suitable for working at temperatures ranging from 0°C to 50°C and humidity ranging from 10% to 90%.
- ONU workplace should avoid high-frequency interference from radio transmitters, radar stations, and power equipments.

## **3.2 Equipment Installation**

### **Installed on the desktop**

Place the ONU on a clean bench, this installation is relatively simple, you can observe the following operation:

- Ensure a smooth workbench.
- Around the device enough space should be provided for heat dissipation.
- Do not place any objects on top of the device.

### **Mounted on the wall**

- Observe ONU equipment chassis, in accordance with the position of the groove, install two screws on the wall.
- The original selected two mounting screws gently snap into recesses aligned.
- Slowly let go of the device under the support of the screw hanging on the wall.

**Connect fiber, network cable and power adapter to the corresponding interfaces, and turn on the device.**

## 4.1 Setup Connection

Connect PC/Laptop to ONU Ethernet port by RJ-45 cable. The PC will receive the IP automatically from the ONU DHCP server in the range of 192.168.1.x/24. Then access the ONU using the below mentioned details:

**Login IP: 192.168.1.1**

**Username: admin**

**Password: Digisol@321**

## 4.2 Setup Wireless Connection

Choose the wireless network name (SSID) "DIGISOL", default security mode is WPA2 mixed, password is 12345678. The PC will receive the IP automatically from the ONU DHCP server in the range of 192.168.1.x/24. Then access the ONU using IP address 192.168.1.1 with Username: admin, Password: Digisol@321

## 4.3 Web management

Connect PC to LAN port of the ONU.

PC will get an IP automatically.

Open any web browser and enter 192.168.1.1 in the browser tab and click enter.

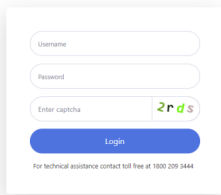
Webpage of the ONU will open.

Enter the credentials mentioned as below :

**Username : admin**

**Password : Digisol@321**

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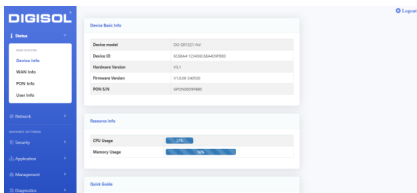
A login form with the following fields and elements:

- Username input field
- Password input field
- Enter captcha input field with a CAPTCHA image showing '2r d s'
- Blue Login button
- Text below the button: "For technical assistance contact toll free at 1800 209 3444"

Figure 3

## 4.4 Device Information

Displays basic information like Device Model, Hardware and Software versions etc.



The screenshot shows the DIGISOL web interface. On the left is a blue sidebar menu with options: Home, Device Info (selected), WAN Info, PDR Info, User Info, Network, Advanced Settings, Security, Application, Management, and Configuration. The main content area is titled "Device Basic Info" and contains the following data:

Device Basic Info	
Device model	DIG-001021164
Device ID	62084-12060-004-00000
Hardware Version	1.0
Firmware Version	V1.00-04001
PDR Info	0000000000000000

Resource Info	
CPU Usage	0%
Memory Usage	0%

Below the Resource Info table is a "Quick Stats" section.

Figure 4

## 4.5 Internet Configuration

Navigate to Network → WAN.

Under WAN configuration, you'll find all the settings required to configure the device for accessing the Internet.

Route and Bridge options are available under Mode field.

Connection mode can be selected as either DHCP / Static / PPPoE as per the ISP network requirement.

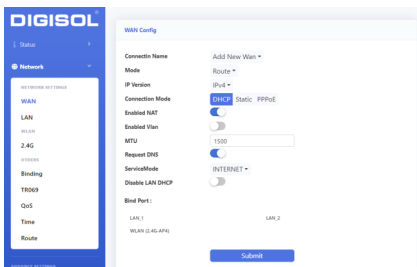


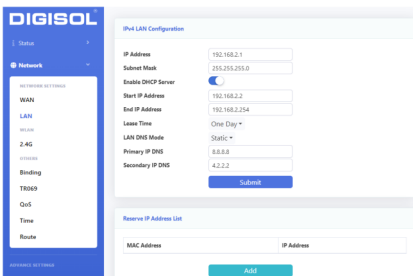
Figure 5

## 4.6 LAN Settings

Navigate to Network → LAN.

Under LAN settings, you could make changes like

- Enable / Disable DHCP server.
- Change LAN IP address.
- Change DNS settings.
- Reserve IP address based on MAC address of the client device etc.

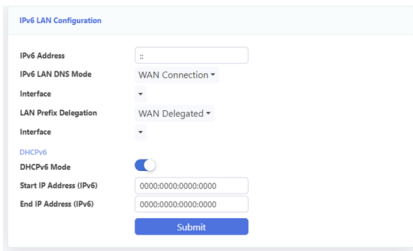


The screenshot shows the DIGISOL Network Settings interface. On the left is a navigation menu with options: WAN, LAN (selected), 2.4G, Binding, TR069, QoS, Time, and Route. The main content area is titled 'IPv4 LAN Configuration' and includes the following fields:

- IP Address: 192.168.2.1
- Subnet Mask: 255.255.255.0
- Enable DHCP Server:
- Start IP Address: 192.168.2.2
- End IP Address: 192.168.2.254
- Lease Time: One Day
- LAN DNS Mode: Static
- Primary IP DNS: 8.8.8.8
- Secondary IP DNS: 4.2.2.2

Below this is a 'Reserve IP Address List' section with two input fields for 'MAC Address' and 'IP Address', and an 'Add' button.

Figure 6



The screenshot shows the 'IPv6 LAN Configuration' interface with the following fields:

- IPv6 Address:
- IPv6 LAN DNS Mode: WAN Connection
- Interface:
- LAN Prefix Delegation: WAN Delegated
- Interface:
- DHCPv6:
- DHCPv6 Mode:
- Start IP Address (IPv6): 0000:0000:0000:0000
- End IP Address (IPv6): 0000:0000:0000:0000

A 'Submit' button is located at the bottom of the configuration area.

Figure 7

## 4.7 WLAN Settings

Navigate to Network → WLAN → 2.4G

Here you can change the Wi-Fi name by making changes to the SSID field & Change wireless password by modifying the Pre- Shared key under the WLAN security option.

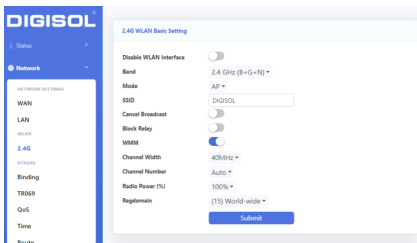


Figure 8

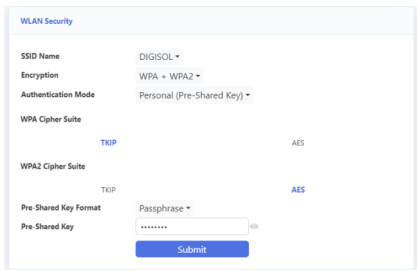


Figure 9

## 4.8 Device Management (Upgrade, Reset, Reboot)

### Upgrading the device to the latest firmware:

Navigate to Management → Device Manage → Upgrade Image.  
Choose the latest upgrade file and click on upgrade.

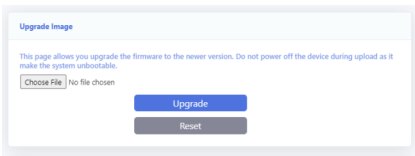


Figure 10

### Reboot the device through webpage:

Navigate to Management → Device Manage → Click on Commit & Reboot.

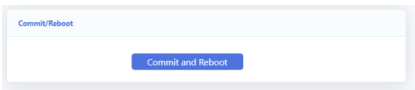


Figure 11

### Restore ONU to factory default settings

Navigate to Management → Device Manage → Under Load Default option → Click on Restore Factory configuration.

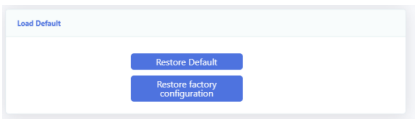
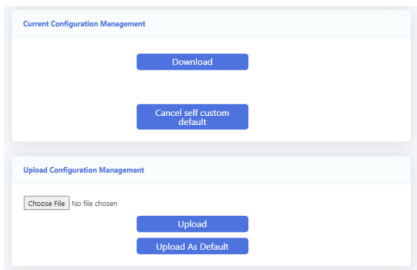


Figure 12

### Download & Upload configuration backup

**To download :** Navigate to Management → Device Manage → Under Load Default option → Current Configuration Management → Click on Download

**To upload the backup :** Navigate to Management → Device Manage → Under Load Default option → Upload Configuration Management → Choose File and then click on upload.



**Figure 13**

# ***Troubleshooting***

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## **1. All indicators are not lit**

### **Reasons:**

- 1) Power connection errors;
- 2) Power is not normal.

### **Solution:**

- 1) Check that the power cable is connected;
- 2) The rear panel of the power supply is turned on.

## **2. GE / FE led does not light?**

### **Reasons:**

- 1) Network cable is damaged or loose connection;
- 2) Cable type error; 3) Long lines outside the allowable range.

### **Solution:**

- 1) Replace the network cable, and pay attention to the standard Ethernet cable must be parallel or crossing lines.

## **3. After working for some time to stop working?**

### **Reasons:**

- 1) Power supply is not working properly;
- 2) The equipment from overheating.

### **Solution:**

- 1) Check if there is contact with abnormal voltage is too high or too low;
- 2) Check the ambient conditions, vents are normal ventilation.

## **4. LOS led flashes?**

### **Reasons:**

- 1) Fiber failure;
- 2) Central office equipment failure.

### **Solution:**

- 1) Inspect fiber is connected properly, is connected to the correct connector, optical power is normal.
- 2) Contact your operator.

## **5. PON led flashes?**

### **Reasons:**

- 1) Fiber optic connector is loose;
- 2) Central office equipment failure;
- 3) Fiber optic connectors are dust.

### **Solution:**

- 1) Inspect fiber is connected properly;
- 2) Cotton ball with alcohol swabbing fiber optic connectors;
- 3) Contact your operator.

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## WARRANTY

This Product is covered under DIGISOL Warranty program backed by DIGISOL Service Center. To avail this Warranty offer, customer needs to contact DIGISOL's Technical Assistance Center for the same. You may be asked to provide proof of purchase of product for warranty claim of defective product. Please refer website [www.digisol.com](http://www.digisol.com) for the detailed support terms & conditions and support process.

### Warranty Policy

1. **Hardware Warranty :** Hardware warranty period shall be limited up to Three years. External Power Adapter shall carry One year warranty only against manufacturing defects. Any repair or replacement will be rendered by DIGISOL at its Service Center only.
2. **Software Warranty :** DIGISOL issues this Limited Software Warranty that the software portion of the product ("Software") will substantially conform to DIGISOL's then current functional specifications for the software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of one year ("Software Warranty period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation.
3. **Governing Law:** This warranty shall be governed by Indian Laws.
4. **Warranty shall subject to the terms & conditions specified in the DIGISOL Product Warranty policy displayed on [www.digisol.com](http://www.digisol.com)**
5. **To avail and activate warranty for your product.**  
Kindly register your product by calling us @1800 209 3444

**DIGICARE**

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