



PoEWit R-4 Preconfigured Enterprise-Class Router User Guide

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PoEWit R-4 Preconfigured Enterprise-Class Router



Product Information

The R-Series Router is an enterprise-class router that comes preconfigured for easy installation and setup. It supports three main types of Internet connections and is set to connect to the Internet in DHCP mode by default. The router has LED indicators and interface descriptions for easy monitoring and identification of ports.

Product Usage Instructions

Installation

1. Remove the R-Series Router from its packaging and place it on a stable surface or rack-mount it using the RB-4 Bracket (for R-4 and R-4-DW) or Rack Mount Ears (for R-10).
2. Insert the blue network cable into WAN1 on the router and insert the other end into an Internet modem. Make sure the Internet modem is turned off.
3. Mount the router power supply to the available space on the RB-4 bracket using the supplied Velcro strips and plug the power supply into the router.
4. Connect the AC power cable to the power supply of the router.
5. Connect the power cable to a surge-protected power bar or power supply.
6. The device should now begin to power up and display link activity on the front.
7. Turn on your Internet modem and wait until all the lights are working properly.

Connecting to the Internet

- The R-Series Router supports the three main types of Internet connections.
- By default, the router is set to connect to the Internet in DHCP mode, so there are no configuration changes necessary if the ISP is using DHCP.

Configuring PPPoE Connection

1. Plug your computer into the router using an Ethernet cable.
2. Open any Internet browser and go to <https://192.168.1.1>.
3. Log into the R-Series Router using admin/password as the username and password.
4. On the top of the window on the right, ensure that the VDOM is set to VDOM: Root.
5. Navigate to Network on the left-hand side of the screen and then click Interface.
6. Select Outside(wan) and click Edit on the top row.
7. Click the PPPoE radio button under the Address/Addressing Mode heading.
8. Enter the username and password provided by the ISP and click OK at the bottom of the screen.
9. The R-Series Router is now configured and ready to be used. You can now go online.

Saving a Backup Configuration

1. On the top right corner of the page, click Admin.
2. Select Configuration and click Backup.
3. Ensure Scope is set to Global and click OK.
4. After a few seconds, your configuration will appear at the bottom of your browser.
5. Please be sure to save it, as PoEWit will not have access to your configurations. It is always recommended to backup all configurations.

Product LED and Interface Descriptions

The router has LED indicators and interface descriptions for easy monitoring and identification of ports. The LED status and operation for each port are as follows:

LED	Status	Operation
Power	Green	Power is on
Power	Off	Power is off
Status	Green	Router is starting-up or rebooting
Status	Off	Normal operation
HA	Green	Unit is being used in an HA cluster
LINK/ACT	Green	Port is online (link established)
WAN1 / DMZ SPEED	Flashing Green	Activity on port
WAN1 / DMZ SPEED	Green	Connected at 1000 Mbps
WAN1 / DMZ SPEED	Amber	Connected at 100 Mbps
SPEED	Green	Port is online (link established)
SPEED	Flashing Green	Activity on port
Ports 1-3	Green	Connected at 1000 Mbps
LINK/ACT	Amber	Connected at 100 Mbps
LINK/ACT	Off	Connected at 10 Mbps

PACKAGE CONTENTS

- **R-Series Router:** Audio-Video Bridging Router
- **RB-4:** Rack Mount Bracket (for R-4 and R-4-DW)
- Rack Mount Ears (for R-10 only)
- Power Supply AC/DC (for R-4 and R-4-DW)
- Power Cable (US, EUR, UK, AUS/NZ, IT or IN/SA)
- USB Management Cable
- Blue Cat5e Cable (WAN1 Port to Internet Connection)
- Quick Start Guide

INSTALLATION

1. Remove the R-Series Router from its packaging and place it on a stable surface or rack-mount it using the RB-4 Bracket (for R-4 and R-4-DW) or Rack Mount Ears (for R-10).
2. Insert the blue network cable into WAN1 on the router and insert the other end into an Internet modem. Make sure the Internet modem is turned off.
3. Mount the router power supply to the available space on the RB-4 bracket using the supplied Velcro strips and plug the power supply into the router.

4. Connect the AC power cable to the power supply of the router.
5. Connect the power cable to a surge-protected power bar or power supply.
6. The device should now begin to power up and display link activity on the front.
7. Turn on your Internet modem and wait until all the lights are working properly.

CONNECTING TO THE INTERNET

The R-Series Router supports the three main types of Internet connections:

- DHCP (Typically used by cable companies and DSL basic service)
- Static IP (Fixed Public IP address, mostly used by business-class broadband services)
- PPPoE (Used by DSL companies)
 - Determine the type of Internet connection from your Internet Service Provider (ISP), and then follow one of the three instruction sets below to connect the R-Series Router to the Internet.
- DHCP
 - By default, the R-Series Router is set to connect to the Internet in DHCP mode, so there are no configuration changes necessary if the ISP is using DHCP.
- Static IP
 - To configure the R-Series Router to use a static IP, complete the following steps:
 1. Determine the following information provided by the ISP:
 - Your assigned IP Address
 - Subnet mask
 - Default gateway
 - DNS server(s)
 2. Plug your computer into any of the numbered ports on the R-Series Router using an Ethernet cable.
 3. Open any Internet browser and go to <https://192.168.1.1>.
 4. Log into the R-Series Router using admin / password as the username and password.
 5. On the top of the window on the right, ensure that the VDOM is set to VDOM: Root.
 6. Navigate to Network on the left-hand side of the screen and then click Interface.
 7. Select Outside(wan) and click Edit on the top row.
 8. Start by selecting Manual under the Address/Addressing Mode heading and then enter the IP address and subnet mask provided by the ISP. Once complete, click "OK" at the bottom of the page.
 9. Click Static Routes under the Network heading on the left.
 10. Click Create New on the top row.
 11. In the Destination field, select Subnet and, below, enter "0.0.0.0/0.0.0.0". Under Gateway Address, type the default gateway provided by the ISP. In the Interface field click the "+" and select Outside(wan) and then click "OK."
 12. Change VDOM to VDOM: Global and click DNS under the Network heading on the left.
 13. Under DNS Servers, select Specify. By default, it will be using Fortiguard DNS Servers.
 14. Under Primary DNS Server and Secondary DNS Server, enter the DNS values provided by the ISP and then click "Apply."
 15. The R-Series Router is now configured and ready to be used. You can now go online.

- PPPoE

- To configure the R-Series Router to use a PPPoE connection, complete the following steps:
 1. Determine the following information provided by the ISP:
 - PPPoE Username
 - PPPoE Password
 2. Plug your computer into the router using an Ethernet cable.
 3. Open any Internet browser and go to <https://192.168.1.1>.
 4. Log into the R-Series Router using admin / password as the username and password.
 5. On the top of the window on the right, ensure that the VDOM is set to VDOM: Root.
 6. Navigate to Network on the left-hand side of the screen and then click Interface.
 7. Select Outside(wan) and click Edit on the top row.
 8. Click the PPPoE radio button under the Address/Addressing Mode heading.
 9. Enter the username and password provided by the ISP and click “OK” at the bottom of the screen.
 10. The R-Series Router is now configured and ready to be used. You can now go online.

CHANGING DEFAULT PASSWORDS

1. Set your computer's network card to DHCP mode and plug your computer into any numbered port on the router using a standard Ethernet cable.
2. Open any Internet browser and go to <https://192.168.1.1>.
3. On the top of the window on the right, ensure that the VDOM is set to VDOM: Global.
4. Navigate to System on the left-hand side of the screen and then click Administrators.
5. Click Admin and select Edit in the row at the top.
6. Next to Username, click Change Password.
7. Enter the default password under Old Password. Reminder: the default password is password.
8. Enter the new password in the New Password and Confirm Password fields.
9. Click “OK” at the bottom of the page to save the new password.
10. Please note your login credentials. For security reasons, PoEWit will not have a way to login. If you don't have your login credentials, you will need to factory reset.

SAVE A BACKUP CONFIGURATION

1. On the top right corner of the page, click Admin.
2. Select Configuration and click Backup.
3. Ensure Scope is set to Global and click “OK.”
4. After a few seconds, your configuration will appear at the bottom of your browser.
5. Please be sure to save it, as PoEWit will not have access to your configurations. It is always recommended to back up all configurations.

PERFORMING A FACTORY RESET

The R-Series Router was designed to be a robust and exceptionally reliable product. As a result, we do not recommend doing a factory reset unless absolutely necessary. If you would like to continue with resetting the device, please contact support.

- **NOTE:** Using the router's hardware reset button will erase ALL PoEWit configurations and make the device unreliable on your network.

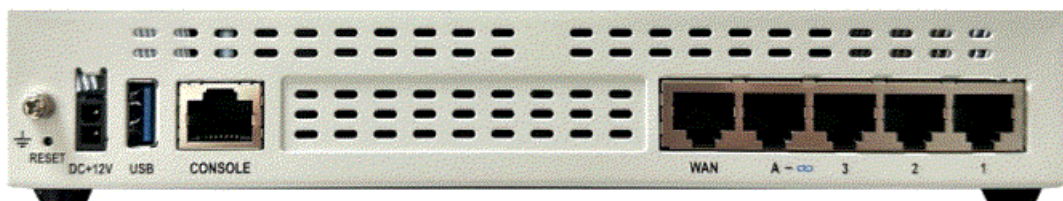
LED AND INTERFACE DESCRIPTIONS

FRONT OF ROUTER



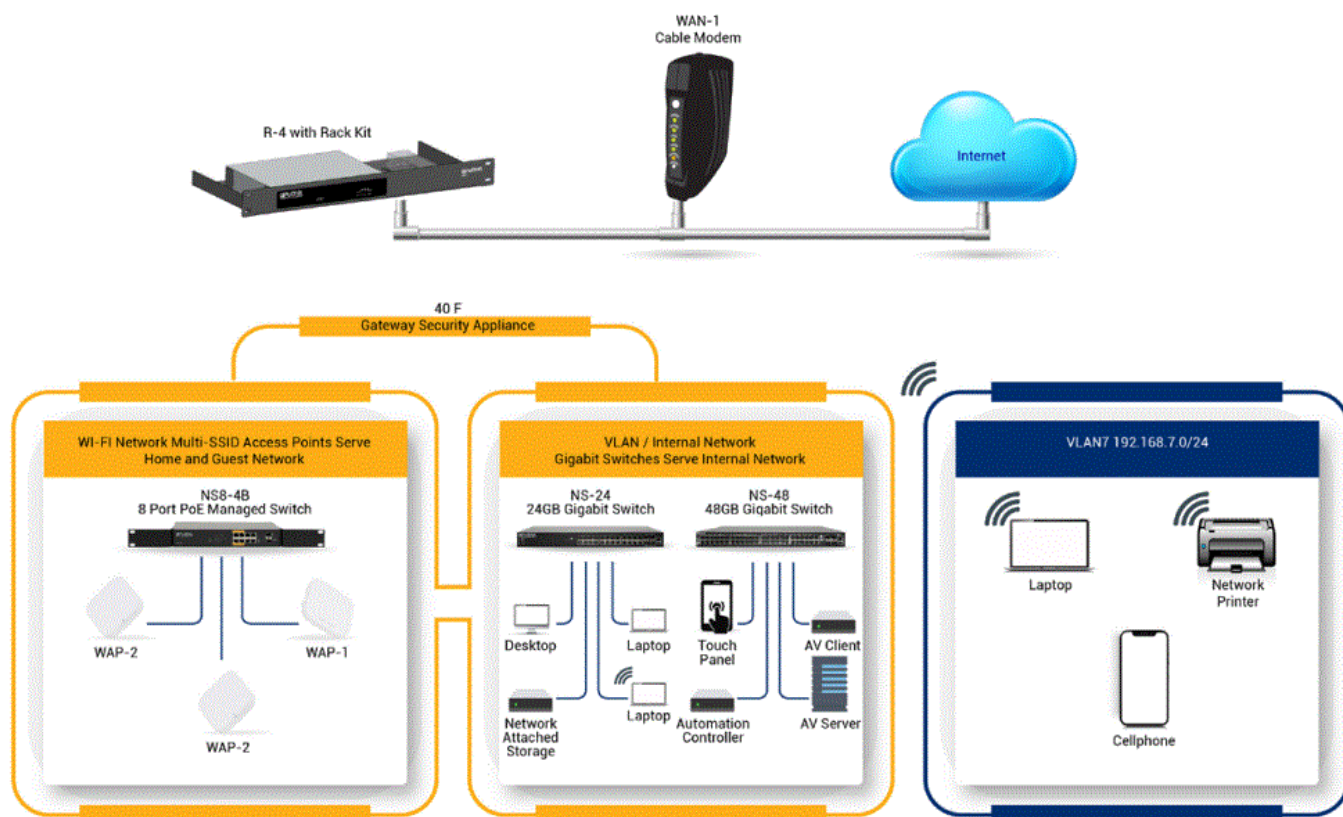
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Ports 1-3	SPEED	Green	Port is online (link established)
		Flashing Green	Activity on port
	LINK/ACT	Green	Connected at 1000 Mbps
		Amber	Connected at 100 Mbps
		Off	Connected at 10 Mbps

BACK OF ROUTER



INTERFACE	TYPE	SPEED	PROTOCOL	DESCRIPTION
DMZ	RJ-45	10/100/1000	Ethernet	Isolated Zone for hosting public facing servers.
Console	RJ-45	9600 bps	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).
USB	USB A		USB	Optional connection for Forti- USB key, modem, or firmware backup and installation.
WAN1	RJ-45	10/100/1000	Ethernet	Connection to the Internet.
Internal	RJ-45	10/100/1000	Ethernet	3-port switch connections on the internal network.

PLANNING YOUR NETWORK



- The PoEWit R-Series Routers are preconfigured to support an internal network and a guest network. The

guest network is configured on VLAN7 and only has access to the Internet. Because it is only on VLAN7, the guest network CANNOT see any of the devices on the internal network.

- In order to use the multiple network features over wireless, you need to connect a VLAN-capable wireless access point to the network and configure it to broadcast VLAN7. PoEWit has a full line of 802.1Q (VLAN-capable) wireless access points. Please contact PoEWit for more information.

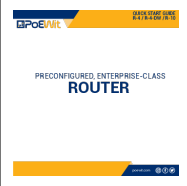
TROUBLESHOOTING & SUPPORT

If you are unable to get the R-Series Router functional using these steps, contact PoEWit Support.

- poewit.com



Documents / Resources

	PoEWit R-4 Preconfigured Enterprise-Class Router [pdf] User Guide R-4, R-4-DW, R-10, R-4 Preconfigured Enterprise-Class Router, Preconfigured Enterprise-Class Router, Enterprise-Class Router, Router
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References

-  [PoE lighting \(Power over Ethernet\) + Smart Home Technology | PoEWit](#)