



Reverse Power Feed over
Coax Modem
Model: IPC-1CP-RPF

Troubleshooting Guide
Version 1.0.0

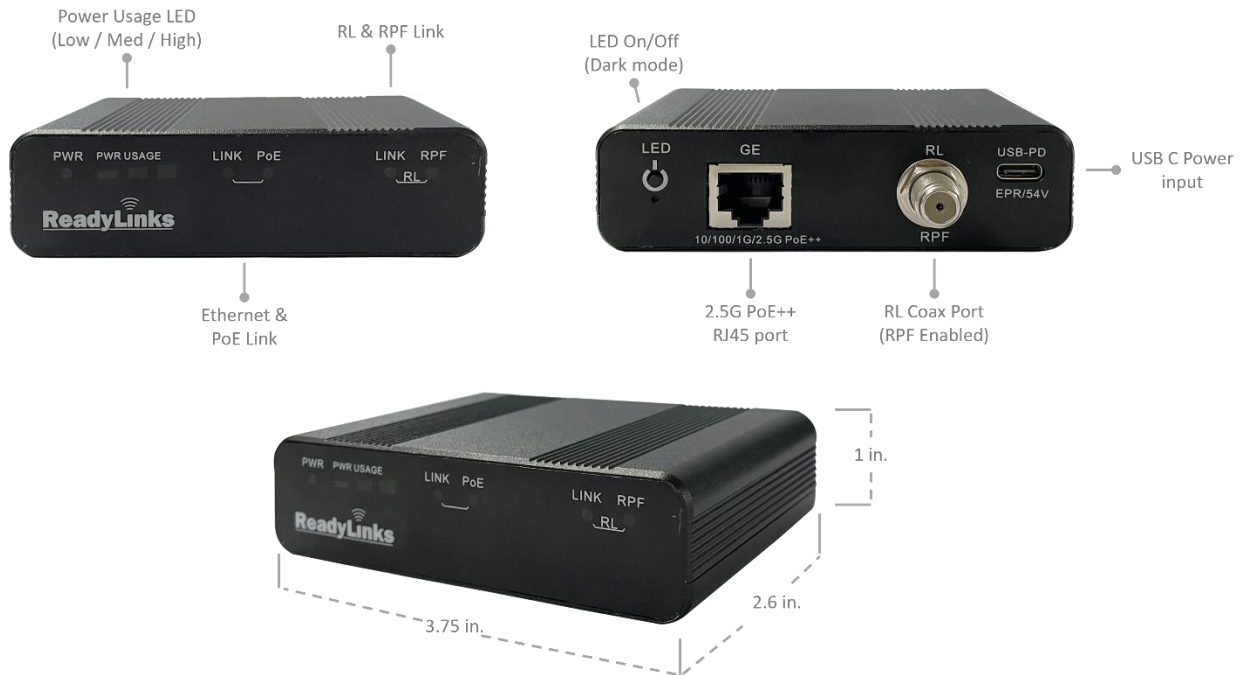
Hardware Overview



LED

Function	LED Status	Meaning
PWR	Off	The device is powered off.
	Blinking	The device is booting up.
	Green	The device is powered on.
USAGE	White	The device is using less than 33% total power capacity.
	White + Green	The device is using between 33% and 66% total power capacity.
	White + Green + Orange	The device is using more than 66% total power capacity.
LINK (GE)	Green	The Ethernet interface is plugged into an active Ethernet port.
	Green (Blinking)	Traffic is passing on the Ethernet port.
	Off	The Ethernet port is unplugged or plugged into an inactive Ethernet port.
PoE	Green	The Ethernet port is connected to a PoE device and supplying power.
	Off	The Ethernet port is not connected to a PoE device.
LINK (RL)	Green	The device has established data link on the coax port.
	Green (Blinking)	The device is connected to another ReadyLinks device and is authenticating.
	Off	The port is disconnected or is not connected to another ReadyLinks device.
RPF	Green	The device is providing reverse power to the connected ReadyLinks device.
	Off	The port is disconnected or is not connected to a reverse power compatible ReadyLinks device.

Ports and Buttons



GE port Standard 10/100/1G/2.5G PoE++ Ethernet interface for LAN connectivity.

RL port Ethernet over coax, reverse power feed compatible, ReadyLink port.

USB PD Type-C port for local power for the device.

LED Button to enable or disable (“dark mode”) the LEDs on the device.

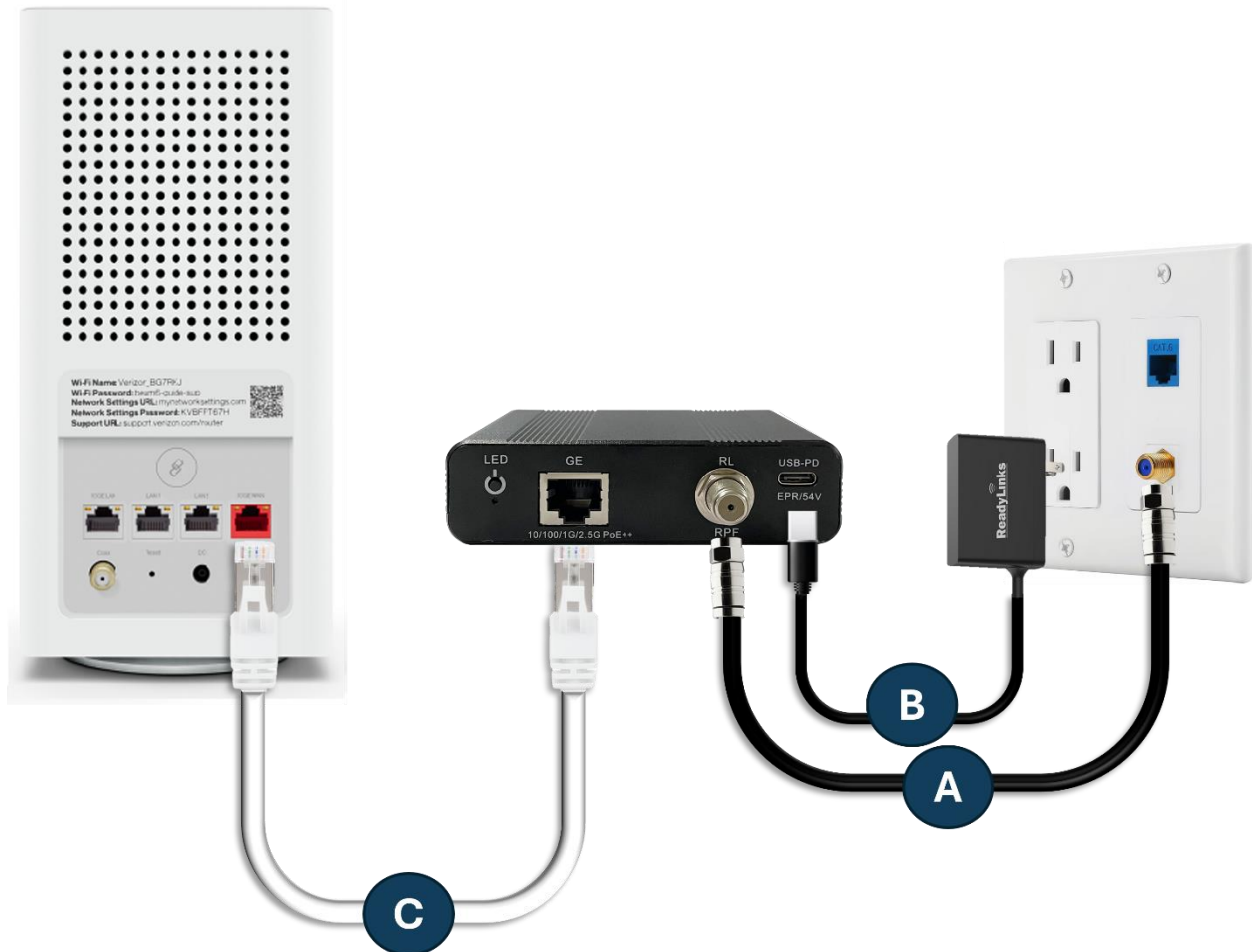
Reset Button to factory reset the configurations on the device.



Note: The USB PD Type C power port supports a wide range of power supplies but requires a USB PD 3.1 EPR 54V compatible power supply to support reverse power feed functionality.

Typical Deployment Scenario

The IPC-1CP-RPF is installed in the customer premises connected to the wall coax and electrical outlets and connects via Ethernet to the customer home router.



- A. Connect a coax cable from the coax port on the IPC-1CP-RPF to a coax outlet.
- B. Connect the power cord to the IPC-1CP-RPF then to an electrical outlet.
- C. Connect the Ethernet cable from the router WAN port to the GE Ethernet port on the IPC-1CP-RPF.

Once all the devices are connected and have finished booting up, the IPC-1CP-RPF will display the following LEDs.



*Note the USAGE and PoE LEDs may differ depending on the power utilization of the system.

Troubleshooting Tips

Coax Connection Failure

1. The first thing to check is whether the ReadyLinks device is powered on and is connected to the coax outlet. Check the RL LINK LED on the front of the device. Check the coax cable connecting to the ReadyLinks device to make sure it is properly connected on both ends.
2. If the prior tips do not resolve the connection issue, try restarting (rebooting) the device by unplugging the power cable from the adapter or the wall and wait 10 seconds. After 3 minutes, recheck the RL LINK LED and try again to access the internet.

LAN Connection Failure

1. The first thing to check is whether your ReadyLinks device is powered on and is connected to the router. Check the GE LINK LED on the front of the device. Check the Ethernet cable connecting the ReadyLinks device to the router to make sure it is properly connected on both ends.
2. If the prior tips do not resolve your connection issue, try restarting (rebooting) the ReadyLinks device by unplugging the power cable from the adapter or the wall and wait 10 seconds. After 3 minutes, recheck the GE LINK LED and try again to access the internet.
3. If the prior tips do not resolve your connection issue, try restarting (rebooting) the router by unplugging the power cable from the adapter or the wall and wait 10 seconds. After 3 minutes, recheck the GE LINK LED and try again to access the internet.

LEDs Off

1. The first thing to check is whether your ReadyLinks device is powered on. Ensure the power cable is securely connected in the device and securely plugged into the electrical outlet.

2. Hold the LED button on the backside of the device down for 2 seconds to turn on the LEDs.

Specifications

IPC-1CP-RPF	
Dimensions	1" (H) x 3.75" (W) x 2.6" (D)
Weight	<1lbs
Enclosure material	Metal
Networking interfaces	(1) 10/100/1G/2.5G Ethernet port (1) RL RPF enabled coax port
PoE interfaces	(1) PoE++ port
Power consumption	3W
Max Power capacity	140W
Power input	USB Type-C PD3.1 EPR (Up to 56V)

Safety Notices

1. Read, follow, and keep these instructions.
2. Heed all warnings.
3. Only use attachments/accessories specified by the manufacturer.



WARNING: Do not use this product in a location that can be submerged by water.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Electrical Safety Information

1. Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment, or pose a fire hazard if the limitations are not followed.
2. There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
3. This equipment is provided with a ground screw and safety ground wire intended for connection to ground.
 - a. Do not substitute any power cord with one that is not the approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
 - b. The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
 - c. Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
 - d. Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.

e. Protective bonding must be installed in accordance with local national wiring rules and regulations.