


# INSTALLING YOUR RUT-241 MODEM/ROUTER

## Step 1: Connect the Power Cable

1. Locate the **power cable** provided in the manufacturer's box.
2. Find the 4-pin power socket on the bottom left corner of the device's front panel, clearly labeled **PWR** (highlighted in green below).
3. Align the keyed connector of the power cable with the socket and plug it in securely until it clicks or locks into place.

 **Important:** Ensure the power source inside the control panel matches the device's voltage specifications before turning on the breaker.


## Step 2: Establish Ethernet Switch Connectivity

1. Locate the pre-run **Cat-6 Ethernet Cable** inside the control panel. This cable routes directly from your internal ethernet switch.
2. Insert this cable firmly into the **LAN** port
3. **CRITICAL WARNING:** Do **NOT** plug this cable, or any other local device cable, into the ports marked in red below. The **WAN** port must remain completely empty to avoid disrupting the system's remote routing configuration.



## Step 3: Device Mounting & Installation


1. Select your mounting method based on the hardware configuration provided with your specific remediation system panel:
  - **Option A (System Mounting Kit):** Secure the RUT-241 router directly to the system's provided custom mounting bracket or DIN rail adapter.
  - **Option B (Teltonika Mounting Feet):** Locate the standard plastic mounting feet included in the manufacturer's box and fasten them securely to the chassis.
2. Position the router in its designated area within the control enclosure.
3. Affix the mounting hardware tightly to ensure the router remains stable and completely immobile.

 **Best Practice:** Remediation systems operate in heavy industrial environments. Double-check that all mounting screws or DIN rail clips are fully seated to prevent vibration-induced disconnections or mechanical stress on the cables over time.



## Step 4: Antenna Connection & Signal Configuration

1. Locate the **Coaxial RF inputs** on the rear panel of the RUT-241 router.
2. Connect your external antenna cables exclusively to the inputs labeled for **Mobile** (Cellular) connectivity.
3. **CRITICAL NOTE:** Only utilize the mobile connections unless you are explicitly aware of and authorized to use an alternate data source (such as Wi-Fi or WAN) for sending and receiving network data.

 **System Configuration Note:** PRM Modem/Routers are strictly configured and optimized for a ground-based **Cellular System signal**. Altering these connections without updating the core system routing may cause a total loss of remote monitoring telemetry.



# Post-Installation Verification & Sign-Off

Before closing the control panel enclosure, verify the following installation benchmarks have been met:

**Power Indicator:** The front panel power LED is illuminated, indicating stable power delivery.

**Port Lock:** The Cat-6 cable is clicked firmly into **LAN**. The **WAN** port remains entirely empty.

**Mechanical Stability:** The device is firmly locked onto the DIN rail/mounting plate and does not shift when cables are lightly tensioned

**Antenna Integrity:** Both **Mobile** coaxial cables are finger-tightened securely to the correct inputs.

## **System Support & Troubleshooting**

If the router fails to establish a cellular connection or telemetry data is not reaching the central network after following these steps, please contact the **PRM Systems Support Desk** or your designated project engineer immediately. Do not attempt to rewire the network switch.