Quick Start Guide
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PACSystems™ 4G/Wi-Fi Kit

QUICK START GUIDE

EMERSON™

Contents

Initial Checks

Upon receiving your equipment, carefully inspect all shipping containers for damage. If any part of the system is damaged, notify the carrier immediately. The damaged shipping container should be saved as evidence for inspection by the carrier.

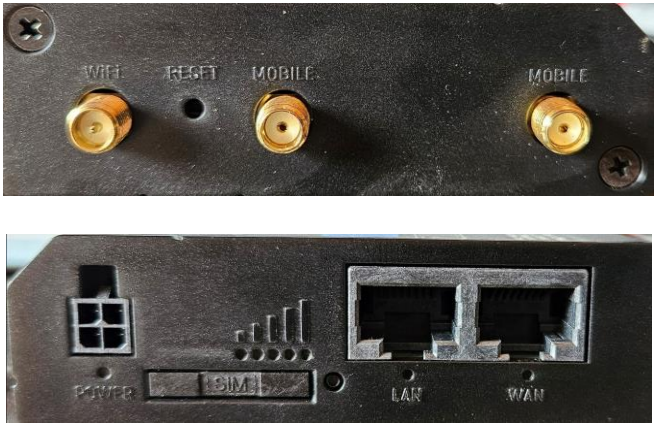
As the consignee, it is your responsibility to register a claim with the carrier for damage incurred during shipment. Emerson will fully cooperate with you, however, should such action be necessary.

After unpacking the equipment, record all serial numbers. Serial numbers are required if you should need to contact Customer Care during the warranty period. All shipping containers and all packing material should be saved should it be necessary to transport or ship any part of the system.

Verify that all components of the system have been received and that they agree with your order. If the system received does not agree with your order, contact Customer Care.

Front Panel Description

Figure 1: Antenna and Connector Views



Connector	Description
Wi-Fi	Wi-Fi antenna connector
Mobile	Two mobile antenna connectors
Reset	Recessed reset button
Power	Power input connector (Use supplied adapter cable)
SIM	For SIM card use. To open, press the ejector button through the opening next to SIM card
LAN	LAN Ethernet port
WAN	Wide Area Network port. Consult Teltonika documentation for possible use cases

Power-Input

To power the system, a voltage of 9 V-30 V DC must be supplied to the power connector via a power adapter cable via screw terminals:
pin 1 – VCC, pin 2 - GND.
The IPC2010 power supply must meet the Safety Extra-Low Voltage/Limited Power Source (SELV/LPS) requirements or be Appropriately Rated for the Ambient and Altitude of the Application (ES1/PS2). It is recommended to use a power supply rated for at least 10 W power delivery.

Figure 2: Power Connector

Getting Started

Follow the steps below to start using the Teltonika RUT241 4G/Wi-Fi module. Once configured, the Teltonika RUT241 can be used as a 4G/Wifi gateway for any of your PACSystems controllers or Industrial PCs via either integrated Ethernet or optional Ethernet communications modules, such as the IC695ETM001.

Note: This guide is tailored specifically for the direct connection to the module (as opposed to a connection via PACEdge):

1. Download RUT241 Quick Start Guide from the address: **https://wiki.teltonika-networks.com/view/RUT241**
2. If cellular connectivity is required, obtain a SIM card and install it into the RUT241 device.

   Note: The default password is written on the back side of the RUT241.

Figure 3: Default Password Location

4. Attach two Mobile and one Wi-Fi antenna to the module.

Figure 4: Connector Interface

5. Power up the RUT241 using the included power cable adapter. The allowed power voltage range is 9 V – 30 V
6. Connect an Ethernet cable between the RUT241 LAN port and one of the unused Ethernet ports on your computer.

Figure 5: Connector Interface

7. Verify that the Ethernet port on your computer is configured for automatic DHCP operation.
8. On a PC, open a browser and enter the following IP address: **http://192.168.1.1** A Teltonika login screen should appear.

9. Log in using the password as printed on the back of the device (Figure 3)
10. Follow the on-screen instructions to change your password.
11. A configuration wizard will appear. To set up the RUT241 as a Wi-Fi Access Point and LAN bridge to the internet using a cellular network, follow the default settings recommended by the configuration wizard. The following steps are suggested to configure the user's time zone:
    a. Keep default settings for LAN and DHCP configuration.
    b. Enter your SIM card pin.
    c. If necessary, change the Wi-Fi AP SSID name and enter the desired Wi-Fi password.
    d. Keep the remaining default settings. When finished, observe connectivity to the cellular network via your provider of choice.
12. At this point, your computer can access the Internet via a 4G Modem.

    Note: By default, the modem is acting as a Wi-Fi Access Point, creating its own Wi-Fi network, which other devices can connect to and also access the Internet via the modem.

Configuring PLC for Wireless Connectivity

This 4G/Wi-Fi module can also be used to enable Wi-Fi connectivity to the PLC. To do so, the PLC needs to be configured on the same IP subnet as the modem, which by default has IP: **192.168.1.1**. To configure the PLC, please use PACs Machine Edition tool and configure LAN port used for modem connectivity to be on the same IP subnet as the modem, example: **192.168.1.100**.
At this point, any other device connected to modem Wi-Fi Access Point can access PLC at IP: 192.168.1.100.

Note: If PLC access to the Internet is required, then in addition to the IP address, the PLC also needs to be configured as follows:

- Default Gateway: 192.168.1.1 (IP of the modem)
- DNS Server: 8.8.8.8

Contact Information and Support

Questions? We are here to help.

Search our Knowledge Base	Open a Support Ticket	Register for a Customer Account
pacsystems.co/knowledge	pacsystems.co/support	pacsystems.co/signup
Customer Center Home Page	**Commercial Website**	**Contact Information**
pacsystems.co/customercenter	pacsystems.co/commercial	pacsystems.co/contactus

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