**TYCON** Solar®

## DATA SHEET

# Remote Cellular Communications

## Features

- **Teltonika RUT241 4G Cellular/WiFi Industrial Router**
- **Compatible with SIM from all major carriers (SIM not included)**
- **Includes SIM adapter kit for Nano and Micro SIM**
- **Includes 12 month management package and 150Gb management data package**
- **Includes AC Power Supply and DC cable for operation from 9-30VDC. Can also be powered by 24V Passive PoE.**
- **Includes DIN Rail Mount Kit for 35mm DIN Rails**
- **Includes Indoor Antennas for Cellular + WiFi and Weatherproof 4G MIMO Cellular + WiFi Puck Antenna.**
- **Includes CAT5E 1.5M Ethernet Patch Cable**
- **-40 to +75C Operating Temperature**

*RUT241 with internal antennas mounted*

## Applications

- **Monitor/Control Remote Systems**
- **RemotePro® and UPSPro® Systems**
- **Security and Surveillance**
- **IoT Connectivity**

- **Environmental Monitoring**
- **Smart Grid Management**
- **Oil and Gas Management**
- **Agriculture/ Livestock**

## Description

**The TS-RUT241-BUNDLE includes a field-proven Teltonika RUT241 Industrial 4G Cellular/Wi-Fi router and all necessary accessories for rapid deployment in remote locations.** Compatible with major carriers such as Verizon, AT&T, and T-Mobile, the router requires a carrier-provided SIM card and data plan for cellular network access.

**Connectivity:** This comprehensive kit offers twelve months of connectivity and a 150GB data allowance through the Tycon® RMS portal. This user-friendly portal enables centralized management and control of deployed routers, including software updates and configuration adjustments. Additionally, users can establish a VPN hub utilizing the platform and OpenVPN software to securely access devices such as security cameras and sensors connected to remote routers at no extra charge.

**Reception:** The kit comes with indoor antennas for Cellular and WiFi and also a weatherproof 4G MIMO cellular / WiFi antenna for enhanced signal reception.

**Power:** The router kit accepts 9-30VDC from multiple power sources. It can be powered with the included AC/DC adapter, directly from batteries using the included DC Cable, or via 24V Passive Power Over Ethernet (PoE) connection through the LAN port.

**Mounting:** The router can be conveniently mounted using the provided DIN Rail adapter.

# TS-RUT241-BUNDLE

## Specifications

| | |
|---|---|
| **Cellular Compatibility** | 4G/LTE (Cat 4), 3G, 2G |
| **Flash Memory and RAM** | 16 MB Flash ; 128 MB RAM |
| **Ethernet Ports** | Qty 2 10/100 Mbps Shielded RJ45 Ports (1x LAN and 1x WAN)<br>*Note:* WAN port can be configured as LAN port in user interface |
| **Network Routing** | Static Routing, Dynamic Routing(BGP,OSPF v2, RIP v1/2, RIPng, OSPF6 |
| **Firewall** | Port Forward, Traffic Rules, Custom Rules |
| **DHCP** | Static and Dynamic IP allocation, DHCP Relay |
| **VPN** | OpenVPN Compatible |
| **Other Network Capabilities** | QOS, DDNS,Load Balancing, VoIP Passthru, VLAN (port and tag), DDOS Prevention, MAC Filter |
| **WiFi Compatibility** | IEEE 802.11b/g/n, Configurable as Access Point (AP) or Client (STA) |
| **WiFi Security** | WPA2-Enterprise-PEAP, WPA2-PSK,WEP,WPA-EAP,WPA-PSK,AES-CCMP,TKIP |
| **Extra Interfaces** | 1x Digital Input + 1x Digital Open Collector Output on 4 Pin Power Connector |
| **Antennas** | 2x 4G Cellular Indoor Antenna, 1x WiFi 2.4GHz Indoor Antenna<br>1x Weatherproof 4G MIMO + WiFi Mobile Antenna |
| **Antenna Connectors** | 2x SMA Cellular ; 1x RP-SMA WiFi |
| **Status LEDs** | 1x Power LED, 2x Lan Status, 5x Signal Strength, 3x Connection Type |
| **Power Options** | 9-30VDC via Power Connector or 24V Passive PoE to LAN Port |
| **AC/DC power supply** | Input:100-240VAC 50/60Hz, Output: 9VDC 1A |
| **Power Connector Type** | Molex 0430250400 4 pos miniature connector housing<br>Molex 0430300009 connector socket for 20-24AWG wire |
| **Power Consumption** | <6.5W Max |
| **Surge Protection** | EN 61000-4-5:2006 |
| **Reset Button Function** | Reboot / Factory Reset |
| **Housing Construction** | Aluminum Housing with plastic front and back panels |
| **Mounting Method** | DIN Rail with included DIN adapter, Mounting slots on bottom and sides of housing |
| **Operating Temperature** | -40°C to +75°C (-40°F to 167°F) |
| **Operating Humidity** | 10% - 95% Non-Condensing |
| **Dimensions** | 3.3 x 1.0 x 2.9" (83 x 25 x 74mm) |
| **Router Weight** | 4.4 oz (125g) |
| **Shipping Weight** | 1.1lb (0.5kg) |
| **Regulatory** | CE, FCC, IC/ISED, EAC, RCM, PTCRB, RoHS, WEEE, WiFi Certified, CCC, Anatel, GCF, REACH, Thailand NBTC, Ukraine UCRF, SDPPI(POSTEL) |
| **Carrier Certifications** | Verizon, T-Mobile, AT&T |
| **Device Management** | Web Based User Interface, Tycon® RMS Management Portal |
| **Warranty** | 2 Years |

## *System Ordering:  TS-RUT241-BUNDLE*   4G LTE Cellular / WiFi Router Kit

**Included Hardware:**



*RUT241 4G LTE Cellular / Wifi Industrial Router*



*AC/DC Power Supply 120/240VAC 9V 1A*



*DC Power Cable 9-30VDC*



*Indoor Antennas Cellular x2 + WiFi x1*



*Weatherproof Antenna 4G MIMO LTE + WiFi*



*DIN Rail Mount Kit*



*SIM Adapter Kit*



*CAT5e 1.5m Patch Cable*

**Included Management:**

- 1 Year (12 months) subscription to Tycon® RMS management portal. The portal allows management of all RUT241 deployed in the field in a single interface. You can monitor device status, make configuration changes, update software, setup VPN access to your external devices, perform quick remote access to check external devices, reboot devices, etc. Additional 12 months subscription can be purchased at tyconsystems.com for ~$36

- 150GB of Tycon® RMS data (Expires if not used in 10 years). RMS Data is required for communicating with the deployed units and servicing any VPN connections, remote access, software updates, unit configuration changes, etc. In a typical environment, you can expect to use ~3-5GB per month if periodically monitoring connected cameras or other data intensive devices. Additional 150GB RMS data packages are available on tyconsystems.com for ~$60

- **Note:** *The router requires a carrier-provided SIM card and data plan for cellular network access.*

# For further information contact:

Tyconsystems.com