

# RUT955 WITH NFE

Secure 4G/3G router capable of protocol conversion



Netcontrol's NFE software makes for an all-in-one solution for automating a small distribution substation



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## FEATURES

Netcon NFE communication software can convert between a multitude of protocols, enabling various RTUs to talk with different kinds of master stations

Industrial-grade IP routing over 4G and 3G networks with GPRS fall-back

Built-in security with firewalls and VPN

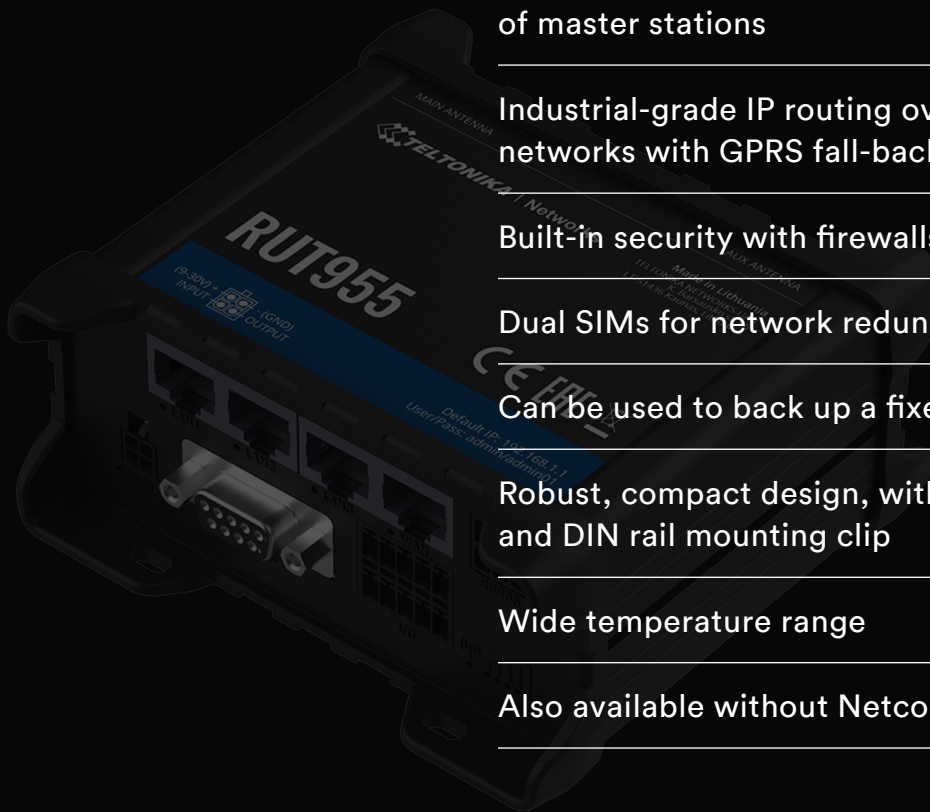
Dual SIMs for network redundancy

Can be used to back up a fixed connection

Robust, compact design, with a metallic chassis and DIN rail mounting clip

Wide temperature range

Also available without Netcon NFE software



# 4G/3G SCADA communication with or without protocol conversion

Teltonika built the RUT955 to be a secure and reliable mobile router. Now Netcontrol's NFE software also makes it a very powerful protocol converter. Compact and cost-efficient, it is all that you need to automate a small distribution substation or disconnector/switching station.

## NOW AVAILABLE WITH NFE SOFTWARE

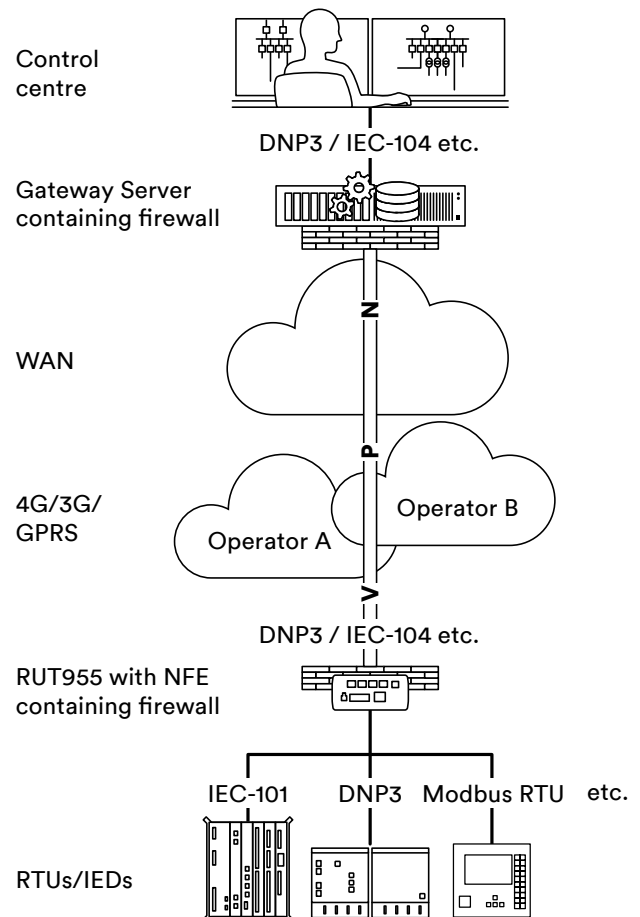
The RUT955 uses Teltonika's RutOS, which is based on OpenWrt, a Linux version for embedded devices. This enables it to run Netcontrol's powerful Netcon NFE software. As a realtime database program, NFE supports conversions among a wide variety of protocols.

The router can thus be connected to RTUs/IEDs using various protocols: it can make them all talk the desired protocol with the control centre or other master station.

The package includes one slave and one master protocol, with 100 I/O points. Additional protocols can be added through license keys. The supported ones include DNP3, IEC-103, IEC-101, IEC-104, Modbus and many more. A full list can be found in the Netcon NFE brochure, M00197-BR-EN.

## SECURE AND RELIABLE REMOTE SCADA CONNECTIVITY

At its heart, the RUT955 is a highly reliable and secure LTE router. Even where protocol conversion is not needed or is handled by Netcontrol's own hardware, we use it to connect remote secondary substations, disconnector stations and switching stations securely to the SCADA center over public 4G/3G networks.



## IP data routing with built-in security

The RUT955 takes IP data coming in through its three Ethernet interfaces and routes the data over the air. Because public networks are inherently insecure, the RUT955 has a built-in firewall with VPN capability to protect the traffic from external manipulation or eavesdropping. It supports both OpenVPN and IPsec.

## Dual SIMs for enhanced availability

The RUT955 can use two SIM cards to enhance availability. The cards are connected to two different operators' networks. During normal



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operation, only one SIM is active. If the network connection fails or deteriorates, the traffic will be switched to the other operator's network.

## Backup for a fixed connection

The RUT955 can operate as a wireless backup for a fixed network connection. If the fixed SCADA connection from the attached RTU fails, the router can automatically switch the traffic onto the mobile LTE/3G network.

## Rugged and compact design

Its compact size, robust metallic chassis and wide temperature range make the RUT955 suited for limited installation spaces and harsh climate conditions.

## Easy configuration

The RUT955 is easily configured through a browser-based interface.



## TECHNICAL SPECIFICATIONS

- 10/100 Mbps Ethernet ports:  
3 × LAN and 1 × WAN
- 2 × SMA connectors for LTE
- 1 × SMA connector for GPS antenna
- 1 × DP9 connector for RS-232
- I/O connector for 3 inputs and 2 outputs
- 4 × Ethernet LEDs, 1 × power LED
- 1 × bi-colour connection status LED
- 5 × connection strength LEDs
- Dimensions (H×W×D): 80 mm × 106 mm × 46 mm
- Weight: 250 g
- DIN rail mounting; clip included
- Input voltage range: 9...30 VDC
- Power consumption: < 7 W
- Operating temperature: -40...+75°C
- Storage temperature: -45°C...+80°C
- Operating humidity: 10%...90%, non-condensing
- Storage humidity: 5%...95%, non-condensing

## Netcontrol and RUT955

Netcontrol sells the RUT955 as part of its communication solutions. The manufacturer is Teltonika in Lithuania.

[www.teltonika.lt/en](http://www.teltonika.lt/en)

**Note on WiFi.** The RUT955 also has WiFi base station capability. However, for security reasons we do not recommend using WiFi in critical utility communications.

