

# RUT900 Configuration Examples

[Main Page](#) > [RUT Routers](#) > [RUT900](#) > **RUT900 Configuration Examples**

This page contains various configuration guides for the RUT900 router. Unlike the articles in the [RUT900 Manual](#), which provide more general knowledge on all of the router's features and functions, these guides are more in-depth and are usually focused on specific configuration scenarios with extensive explanations. While most of the guides apply to both Windows and Linux Operating Systems, some are exclusive to one OS and others aren't OS specific in any way and apply to any system.

□

## Contents

- [1 Router control and monitoring](#)
- [2 System upgrades](#)
- [3 Modem control](#)
- [4 Connection backup](#)
- [5 VPN](#)
- [6 DDNS](#)
- [7 VLAN](#)
- [8 Email](#)
- [9 Camera](#)
- [10 PC](#)
- [11 Use cases](#)
  - [11.1 I/O Juggler](#)
- [12 Third party services](#)
  - [12.1 VPN](#)
  - [12.2 IoT platforms](#)
  - [12.3 WiFi](#)
- [13 DHCP Relay](#)

## Router control and monitoring

- [Configuration Backup](#)
- [Command line interfaces](#)
- [JSON-RPC \(Windows\)](#)
- [JSON-RPC \(Linux\)](#)
- [MQTT \(Linux guide\)](#)
- [Modbus \(Linux guide\)](#)
- [UCI command usage](#)
- [Crontabs](#)
- [Relayd](#)
- [SSH RSA key authentication \(Linux\)](#)
- [SSH RSA key authentication \(Windows\)](#)
- [Monitoring via Modbus](#)

## System upgrades

- [Bootloader Upgrade](#)
- [Firmware via the Bootloader Menu](#)
- [Firmware upgrade via command line](#)

## Modem control

- [AT Commands](#)
- [gsmctl commands](#)

## Connection backup

- [VRRP](#)

## VPN

- [How to generate TLS certificates \(Windows\)?](#)
- [OpenVPN configuration examples](#)
- [OpenVPN traffic split](#)
- [IPsec configuration examples](#)
- [GRE Tunnel configuration examples](#)
- [PPTP configuration examples](#)
- [L2TP configuration examples](#)
- [L2TP over IPsec](#)
- [L2TP over IPsec \(Windows 10\)](#)
- [DMVPN configuration](#)
- [ZeroTier One VPN configuration](#)
- [OpenVPN over Stunnel](#)
- [Setting a GRE tunnel via cli](#)
- [Setting up a GRE tunnel between RUT and Cisco device](#)
- [Setting up an IPsec tunnel between RUT and Cisco device](#)
- [Setting up a L2TP over IPsec tunnel between RUT and Mikrotik device](#)
- [Setting up an OpenVPN tunnel between RUT and Mikrotik device](#)
- [Setting up a SSTP tunnel between RUT and Mikrotik device](#)
- [Overlapping subnets with IPsec solution](#)

## DDNS

- [noip.com](#)
- [dnsdynamic.org](#)
- [dynu.com](#)
- [dyn.com](#)

## VLAN

- [VLAN tag based configuration examples](#)
- [Use LAN port as WAN](#)

## Email

- [Sending emails via command line](#)

## Camera

- [Camera access from VPN](#)
- [Camera access from smartphone](#)
- [Remote camera access](#)

## PC

- [Setting up a Static IP address on a Windows 10 PC](#)
- [Setting up a Static IP address on a Ubuntu 16.04 PC](#)
- [Setting up an FTP server on a Ubuntu 16.04 PC](#)
- [OpenVPN client on Windows](#)
- [OpenVPN client on Linux](#)
- [OpenVPN server on Windows](#)
- [Wake on LAN PC setup \(Windows\)](#)

## Use cases

- [Connecting two same subnet office networks using OpenVPN bridge \(TAP\) on RUT9xx](#)
- [Connecting to the office network remotely from your home via VPN \(L2TP over IPsec\) using RUT9xx](#)
- [Configuring clients to access internet through office's gateway from home using VPN RUT9xx](#)
- [Anonymous browsing from your home network using NordVPN and RUT9xx router](#)
- [Anonymous browsing from your home network using ExpressVPN and RUT9xx router](#)

## I/O Juggler

- [SMS and Email alerts Triggered by BAT120](#)

## Third party services

### VPN

- [vpngate.net](http://vpngate.net)
- [vpnbook.com](http://vpnbook.com)
- [hide.me](http://hide.me)
- [RUT9xx NordVPN configuration example](#)
- [RUT9xx ExpressVPN configuration example](#)

### IoT platforms

- [Azure IoT Hub cloud connection](#)
- [Telenor cloud connection](#)
- [cobot.me](http://cobot.me)
- [da<sup>3</sup>vid](http://da3vid)

## WiFi

- [How to set up a guest WiFi network on RUT](#)
- [IdBlender Secure WiFi Setup](#)
- [ironwifi.com \(Legacy firmware\)](#)
- [ironwifi.com \(RutOS firmware\)](#)
- [cobot.me \(Legacy firmware\)](#)
- [cobot.me \(RutOS firmware\)](#)
- [purple.ai](#)
- [RUTOS relay / Wi-Fi extender / repeater / bridge configuration](#)

## DHCP Relay

- [DHCP Relay configuration example](#)