

RUT301 Firmware Downloads

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This page contains firmware files for RUT301 devices. Look to the table below or the [changelog](#) to find download links.

To upgrade firmware using WebUI, follow the instructions in [RUT301 Firmware](#).

RUT301

File	Type	Release date	Size	MD5	Changelog
RUT301_R_00.07.07.3_WEBUI.bin	Latest FW	2024.06.25	10.44 MB	ad89f77938ae6a503cc262da5f005e0e	Link
RUT301_R_00.07.06.10_WEBUI.bin	Mass production FW	2024.04.04	10.13 MB	eb33518fa5d304c306598251f1b22ef4	Link
RUT301_R_GPL_00.07.07.3.tar.gz	SDK	2024.06.25	18.47 MB	0188f92e01bf8c283c4f99f431558f0a	

Note: packages for [Package Manager](#) are independent from firmware and can be downloaded in the [Package Downloads](#) page.

FW checksums

Checksums for firmware files can be found [here](#).

Changelog

[RUT301_R_00.07.07.3](#) | 2024.06.25

- **Fix**
 - **Network**
 - WebUI: fixed port advertisement change
 - **System**
 - FOTA: fixed config when upgrading from older firmware with keep settings
- **CVE Patches**
 - CVE-2024-31950
 - CVE-2024-31951

[RUT301_R_00.07.07.2](#) | 2024.06.12

- **Improvements**
 - **Network**
 - Zerotier: added backup WAN interface blacklisting if WAN failover is enabled
 - **Services**

- SNMP: added bruteforce attack prevention when using SNMP v3 user
 - L2TP: improved reconnect attempt logic
 - **System**
 - SSH: removed weak SSH algorithms
 - Telnet: moved to Package Manager
 - **Fix**
 - **Network**
 - BGP: fixed instance migration issues
 - **Services**
 - DMVPN: fixed duplicate NHRP map entries creation
 - OpenVPN: added fixes for the insecure tls-cert-profile option usage
 - **System**
 - IP Block: fixed blocking of UDP traffic
 - Uboot: fixed firmware recovery update via uboot on Windows
 - **CVE Patches**
 - CVE-2024-31948
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[RUT301_R_00.07.07.1](#) | 2024.05.03

- **New**
 - **Network**
 - WebUI: added internet status tracking configuration and overview widget
 - LAN: added a new IPv6 LAN status page
 - Static Leases: added a new IPv6 Static Leases page
 - WebUI: added custom domain name resolve option in “DNS” configuration page
 - Failover: added additional connection flush options
 - VRF: added initial Virtual Routing and Forwarding support
 - **Services**
 - Post/Get: added I/O invert support
 - DLMS Client: added persistent TCP connections
 - Events Reporting: added unexpected shutdown event
 - Modbus Client: added 64bit data types
 - IPerf3: added iPerf3 to Package Manager
 - DNP3 Outstation: added I/O objects
 - Hotspot: added domain and subdomain options for external landing page
 - **System**
 - WebUI: added the ability to generate random passwords for password input fields
 - WebUI: added reset to “Factory defaults” option
 - System: changed firmware certificate verification tool
 - IP Block: added time-based login attempt blocking
 - WebUI: added firmware update notification support
 - PAM: added the ability to set port for TACACS+
 - Logging: added multiple remote syslog servers support
- **Improvements**
 - **Network**
 - Static Leases: added possibility to use MAC with wildcard
 - Topology: changed network devices scanning application
 - WebUI: improved design of Status - LAN page
 - DHCP: simplified DHCP configurations in other pages and moved full DHCP

- configuration to a separate page
 - DHCP: removed default disabled server configuration for WAN interface
 - WebUI: simplified data entry of DNS forwardings by separating hostname and IP address fields
 - BGP: added Virtual Routing and Forwarding (VRF) support
 - BGP: added multiple BGP instance support
 - WebUI: adjusted responsive design breakpoints
 - Dnsmasq: updated dnsmasq to version 2.89
- **Services**
 - Wireguard: added option to bind tunnel to a specific interface
 - OPC UA Client: added limits (10 servers, 20 groups, 50 nodes per server, 50 values per group)
 - DLMS Client: increased maximum count of connection sections to 30
 - DLMS Client: added short name referencing
 - SNMP: set strict default community access when IPv6 address is used
 - SNMP: improved sysName OID to set device's hostname
 - Mosquitto: updated package version to 2.0.17
 - Hotspot: moved MAC blocking option from Access Control to Hotspot page
 - WebUI: added MAC authentication support when using RADIUS authentication mode
 - WebUI: moved licenses to footer
 - OpenVPN: added the bridge option for selecting the network device to be bridged with
 - OpenVPN: added possibility to create more than one TAP client
 - SSTP: updated package version to 1.0.19
- **System**
 - WebUI: added more strict password requirements for restoring backup
 - SMTP: added option to either not verify SMTP server or upload SMTP server's CA file to verify authenticity
 - WebUI: Added the ability to choose the ROOT CA when using certificates from the device
 - WebUI: unified time format to ISO8601 across the entire WebUI
 - WebUI: added ability to choose imported certificate and key as 'Server certificate' and 'Server key' in 'Access Control'
 - WebUI: added 'Hosts' and 'IP Addresses' options for 'Simple' certificate generation and certificate signing
 - WebUI: changed firmware update option to server as a default option
 - WebUI: improved first login password change logic
 - Certificates: updated Root CA certificates
 - GPL: added offline package preparation command for GPL builds
 - Speedtest: added multiple connections support to improve accuracy
 - Kernel: updated to version 5.15.149
 - Libcap: updated package version to 2.69
- **Fix**
 - **Network**
 - Topology: fixed showing interfaces with assigned VLAN
 - WebUI: fixed static routing creation for GRE instance
 - Network: fixed DHCPv4 relay mode enabling
 - Failover: fixed Failover missing active rules when using multiple source and destination IP addresses
 - WebUI: fixed network and failover interface metric sorting synchronization issue

- WebUI: fixed failover rule policy save issue with newly added WAN interface
- Interfaces: fixed failover value for new WAN being taken from WAN that was just deleted
- **Services**
 - Modbus Client: allow using negative floating point values in requests
 - Azure IoT Hub: fixed Data to Server minor WebUI dependency bugs
 - Data to Server: fixed DLMS data formatting
 - Data to Server: fixed Network link state data display
 - DLMS Client: fixed segfault while reading profile generic COSEM object
 - DLMS Client: fixed profile generic entries reading
 - DLMS Client: fixed application memory allocation issues
 - SSTP: fixed route adding when default route is enabled
 - SNMP: fixed VLAN OID naming
 - OpenVPN: added fixes for instance status tracking functionality
 - OpenVPN: resolved uptime counting issues
 - PPTP: fixed PPTP instance deletion problem
 - Azure IoT Hub: fixed 'contentType' telemetry message parameter
 - Hotspot: fixed password validation for locally created users and signed-up users
 - Hotspot: fixed session invalidation after deleting registered user
 - Hotspot: fixed firewall rule creation
 - PPTP: fixed problem related with routes when failover is enabled
 - WebUI: fixed data loading error in Input/Output > Post/Get page
 - UPnP: updated package version to 2.3.4
- **System**
 - Package Manager: fixed spinner message when restarting network after package upload or download
 - Package Manager: fixed supported devices check when installing a package from server
 - WebUI: fixed language install from uploaded package after upgrade with keep settings
 - WebUI: fixed an issue when a user was not logged out after changing profiles
 - Telnet: fixed segmentation fault during concurrent connections
 - CLI: fixed enter key issue on mobile chromium based browsers
 - System Users: fixed SSH session close after deleting user or disabling SSH access
 - Profiles: fixed profile migration with installed packages
 - WebUI: fixed Hotspot log page table search functionality
 - Speedtest: fix missing download speed on some servers
 - PAM: updated libpam to version 1.6.0
- **CVE Patches**
 - CVE-2022-4603
 - CVE-2022-23308
 - CVE 2022-45061
 - CVE-2023-0466
 - CVE-2023-6129
 - CVE-2023-7042
 - CVE 2023-24329
 - CVE 2023-27043
 - CVE-2023-42366
 - CVE-2023-46218
 - CVE-2023-46219
 - CVE-2023-46752

- CVE-2023-46753
 - CVE-2023-48795
 - CVE-2024-2397
 - CVE-2024-25062
 - CVE-2024-27913
 - CVE-2024-22365
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[RUT301_R_00.07.06.10](#) | 2024.04.04

- **Fix**
 - **System**
 - Ledman: fixed memory leak
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[RUT301_R_00.07.06.8](#) | 2024.03.25

Note: Firmware **R_00.07.06.8** was removed due to an issue with inefficient memory allocation for LED control.

- **Improvements**
 - **Services**
 - IPsec: disabled libgmp in favor of openssl
 - IPsec: updated Strongswan to 5.9.6
 - **Fix**
 - **Services**
 - IPsec: increased charon load timeout
 - IPsec: fixed loading of large private keys
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[RUT301_R_00.07.06.6](#) | 2024.03.04

- **New**
 - **Services**
 - Added domain and subdomain options for external landing page in Hotspot
 - **Improvements**
 - **System**
 - Minified *.svg WebUI files to save space on the device
 - Removed unused easy-rsa package to increase free space
 - **Fix**
 - **Services**
 - Fixed OverIP serial utility issue where after some time server mode can't accept incoming connections anymore
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[RUT301_R_00.07.06.5](#) | 2024.02.21

- Initial FW release for the RUT301 device