

LCOS 10.94

R&S® LANCOM 750-5G

Secure and flexible 5G network expansion



Conveniently expand your network infrastructure with fast 5G cellular radio. The device is ideally suited for use as a modem or "external 5G antenna" and for use as mobile primary access or for backup purposes. Thanks to WWAN bridge mode, the device forwards data traffic completely transparently to a downstream gateway. The device can also be easily integrated into the network as a router and provides protection against unauthorized access with a stateful inspection firewall. With Power over Ethernet, it can be powered without an additional power supply unit. Thus, the device can be flexibly placed in locations with best 5G coverage.

- ▶ Integrated 5G modem for low latency and high bandwidth in real-time applications
- ▶ Flexible use as a network extension ("external 5G antenna"), as a stand-alone 5G router for primary access, or as a redundant cellular backup
- ▶ Transparent data forwarding via WWAN bridge mode to a connected R&S® LANCOM SD-WAN gateway
- ▶ Power supply via power adapter or Power over Ethernet according to IEEE 802.3af on a R&S® LANCOM PoE switch
- ▶ Easy integration into the R&S® LANCOM Management Cloud
- ▶ Extended protection with the content filter of the R&S® LANCOM Security Essentials Option

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High network availability with 5G cellular connectivity

Ensure reliable operation of your enterprise networks – even under changing network conditions, outages, or capacity constraints of other access technologies. The 5G-capable device can be flexibly used as a mobile network extension (external 5G modem), as a primary access solution at sites without fixed-line connectivity, or as an intelligent backup to protect connected routers and gateways during WAN disruptions. Thanks to low latency and stable bandwidth, a secure 5G mobile network effortlessly supports time-critical and data-intensive cloud, edge, and real-time applications.

Flexible installation without an additional power supply

Position the device exactly where cellular reception is strongest, independent of power outlets or structural constraints. This reduces installation effort, shortens deployment time, and enables seamless integration of the WAN extension into the network. Both power supply and high-performance network connectivity are provided via a single cable through the PoE-enabled Gigabit Ethernet port.

Centralized management via the R&S® LANCOM Management Cloud

The device can be quickly and easily integrated into the R&S® LANCOM Management Cloud. As a centralized platform, it enables comprehensive monitoring and efficient cross-site management. This allows you to keep track of device status at all times and manage configurations, policies, and firmware updates. This reduces administrative effort and increases operational reliability in installations ranging from small to very large.

Individually upgradeable security with content filter

The R&S® LANCOM Security Essentials Option enhances the router with a cloud-based web and content filter that protects against phishing, ransomware, and malicious websites. Thanks to its unlimited number of users, the option is ideally suited for growing networks.

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Layer 2 features	
VLAN	4.096 IDs based on IEEE 802.1q, dynamic assignment
Multicast	IGMP-Snooping, MLD-Snooping
Layer 3 features	
Firewall	Stateful inspection firewall including packet filtering, extended port forwarding, N:N IP address mapping, packet tagging, support for DNS targets, user-defined rules and notifications
Quality of Service	Traffic shaping, bandwidth reservation, DiffServ/TOS, packet size control, layer-2-in-layer-3 tagging, support for 8 QoS queues (6 free configurable)
Security	Intrusion Prevention, IP spoofing, access control lists, Denial of Service protection, detailed settings for handling reassembly, session-recovery, PING, stealth mode and AUTH port, URL blocker, password protection, programmable reset button
PPP authentication mechanisms	PAP, CHAP, MS-CHAP, and MS-CHAPv2
High availability / redundancy	VRRP (Virtual Router Redundancy Protocol)
Router	IPv4-, IPv6-, IPv4/IPv6 dual stack
Router virtualization	ARF (Advanced Routing and Forwarding) up to separate processing of 2 contexts
IPv4 services	HTTP and HTTPS server for configuration by web interface, DNS client, DNS server, DNS relay, DNS proxy, dynamic DNS client, DHCP client, DHCP relay and DHCP server including autodetection, NTP client, SNTP server, policy-based routing, Bonjour-Proxy, RADIUS
IPv6 services	HTTP and HTTPS server for configuration by web interface, DHCPv6 client, DHCPv6 server, DHCPv6 relay, DNS client, DNS server, dynamic DNS client, NTP client, SNTP server, Bonjour-Proxy, RADIUS
Dynamic routing protocols	RIPv2
IPv4 protocols	DNS, HTTP, HTTPS, ICMP, NTP/SNTP, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+, IGMPv3
IPv6 protocols	NDP, stateless address autoconfiguration (SLAAC), stateful address autoconfiguration (DHCPv6), router advertisements, ICMPv6, DHCPv6, DNS, HTTP, HTTPS, PPPoE, RADIUS, SMTP, NTP, Syslog, SNMPv1,v2c,v3, MLDv2, NPTv6 (NAT66), VRRPv3
Tunneling protocols (IPv4/IPv6)	6to4, 6in4, 6rd, Dual Stack Lite, 464XLAT
Security	
Intrusion Prevention	Monitoring and blocking of login attempts and port scans
IP spoofing	Source IP address check on all interfaces: only IP addresses belonging to the defined IP networks are allowed
Access control lists	Filtering of IP or MAC addresses and preset protocols for configuration access
Denial of Service protection	Protection from fragmentation errors and SYN flooding
General	Detailed settings for handling reassembly, PING, stealth mode and AUTH port
Password protection	Password-protected configuration access can be set for each interface
Two-factor authentication	Two-factor authentication (2FA) for local device management via WEBconfig, SSH or Telnet with external Authenticator application
Alerts	Alerts via e-mail, SNMP traps and SYSLOG
Authentication mechanisms	EAP-TLS, EAP-TTLS, PEAP, MS-CHAP, MS-CHAPv2 as EAP authentication mechanisms, PAP, CHAP, MS-CHAP and MS-CHAPv2 as PPP authentication mechanisms
Adjustable reset button	Adjustable reset button for 'ignore', 'boot-only' and 'reset-or-boot'
High availability / redundancy	
VRRP	VRRP (Virtual Router Redundancy Protocol VRRPv2 and VRRPv3) for backup in case of failure of a device or remote station.
FirmSafe	For completely safe software upgrades thanks to two stored firmware versions, incl. test mode for firmware updates

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Performance	
Routing-Performance	Data regarding the overall routing performance can be found inside the R&S® NC tech paper "Routing-Performance" here .
Cellular radio	
Supported standards	5G, LTE, UMTS and HSPA support (mode of transmission automatically or manually adjustable), 2G/GSM is not supported
Supported 5G modes	5G standalone (SA), 5G non-standalone (NSA)
Supported mobile bands (5G)	n1 (2100 MHz), n2 (1900 MHz), n3 (1800 MHz), n5 (850 MHz), n7 (2600 MHz), n8 (900 MHz), n12 (700 MHz), n13 (700 MHz), n14 (700 MHz), n18 (850 MHz), n20 (800 MHz), n25 (1900 MHz), n26 (850 MHz), n28 (700 MHz), n29 (700 MHz), n30 (2300 MHz), n38 (2600 MHz), n40 (2300 MHz), n41 (2500 MHz), n48 (3500 MHz), n66 (2100 MHz), n70 (2000 MHz), n71 (600 MHz), n75 (1500 MHz), n76 (1500 MHz), n77 (3700 MHz), n78 (3500 MHz), n79 (4700 MHz)
Supported mobile bands (4G)	B1 (2100 MHz), B2 (1900 MHz), B3 (1800 MHz), B4 (1700 MHz), B5 (850 MHz), B7 (2600 MHz), B8 (900 MHz), B12 (700 MHz), B13 (700 MHz), B14 (700 MHz), B17 (700 MHz), B18 (850 MHz), B19 (850 MHz), B20 (800 MHz), B25 (1900 MHz), B26 (850 MHz), B28 (700 MHz), B29 (700 MHz), B30 (2300 MHz), B32 (1500 MHz), B34 (2000 MHz), B38 (2600 MHz), B39 (1900 MHz), B40 (2300 MHz), B41 (2500 MHz), B42 (3500 MHz), B43 (3700 MHz), B48 (3500 MHz), B66 (1700 MHz), B71 (600 MHz)
Supported mobile bands (3G)	Band 1 (2100 MHz), Band 2 (1900 MHz), Band 4 (1700 MHz), Band 5 (850 MHz), Band 8 (900 MHz), Band 19 (800 MHz)
Diversity support	Receive diversity on the aux antenna (3G); MIMO (4x4) for LTE (4G); MIMO (4x4) for 5G
External antenna connectors	Four SMA antenna connectors (SMA female) for external mobile radio antennas
WWAN operating modes	Router or bridge mode
Supported SIM card formats	Micro-SIM (3FF), Nano-SIM (4FF) via adaptor
GPS	GPS positioning via enclosed antennas
Interfaces	
ETH1 (PoE)	10/100/1000 Base-T full-duplex, autosensing, auto node hub, PoE compliant with IEEE 802.3af. The port supports energy saving according to IEEE 802.3az
Serial interface	Serial configuration interface / COM port (USB-C): 9,600 - 115,000 baud.
External antenna connectors	Four SMA antenna connectors for external 5G antennas
Management and monitoring	
Management	R&S® LANCOM Management Cloud, LANconfig, WEBconfig, R&S® LANCOM Layer 2 management (emergency management)
Management functions	Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrators, RADIUS and RADSEC user management, remote access (WAN or (W)LAN, access rights (read/write) adjustable separately), SSL, SSH, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through cron job
FirmSafe	Two stored firmware versions, incl. test mode for firmware updates
automatic firmware update	configurable automatic checking and installation of firmware updates
Monitoring	R&S® LANCOM Management Cloud, LANmonitor, WLANmonitor
Monitoring functions	Device SYSLOG, SNMPv1,v2c,v3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events
Monitoring statistics	Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG
IPerf	IPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server)
SLA-Monitor (ICMP)	Performance monitoring of connections
Netflow	Export of information about incoming and outgoing IP traffic
Hardware	
Weight	1,98 lbs (900 g)

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Hardware	
Power supply	Via Power over Ethernet, compliant with IEEE 802.3af
Environment	Temperature range 0–40°C; humidity 0–95%; non-condensing
Housing	Robust synthetic housing with aluminum body, rear connectors, ready for wall mounting, Kensington lock; 205 x 42 x 205 mm (W x H x D)
Fans	None; fanless design without rotating parts, high MTBF
Power consumption (Idle)	Approx. 4,9 W via power adapter (value refers to the power for the device and power adapter), about 6,9 W via PoE (value refers to the power for the device only)
Power consumption (max)	Approx. 10,1 W via power adapter (value refers to the overall power for the device and power adapter), about 13,0 W via PoE (value refers to the power for the device only)
Declarations of conformity*	
Europe/EFTA	CE
Country of Origin	Made in Germany
*) Note	The full text of the specific Declaration of Conformity is available here
Scope of delivery	
Manual	Quick Installation Guide (DE/EN)
Cable	1 Ethernet cable, 3 m
Antennas	Four 2 dBi 5G/LTE/UMTS-antennas
Power supply unit	External power adapter (230 V), NEST 12 V/3.5 A DC/S, coaxial power connector 2.1/5.5 mm, temperature range from 0 to +40° C, R&S® LANCOM item no. 112098
Support	
Warranty extension	Free warranty extension up to 3 years (replacement service for defects) Find details here . The service and support conditions valid as of July 1, 2026, available at rs-nc.rohde-schwarz.com/fileadmin/pdf/LCS/ServiceSupportConditions/Rohde-Schwarz-Networks-and-Cybersecurity-GmbH-Service-and-Support-Conditions-20260701.pdf , apply.
Security updates	Up to 2 years after End of Sale of the device (but min. 3 years, see Link), can be extended by purchasing R&S® NC Support products
Software updates	Regular free updates including new features as part of the R&S® NC Lifecycle Management (Link)
Information on the EU Data Act	For details on product data and data on connected services, please refer to: Link
Manufacturer support	Available with R&S® NC products such as Support Access (for R&S® NC Community Partners only), Direct, or Premium
R&S® NC Replacement Basic S	Security updates until EOL (min. 5 years) and 5 years replacement service with shipment of the replacement device within 5 days after arrival of the defective device (8/5/5Days), item no. 10720
R&S® NC Replacement Advanced S	Security updates until EOL (min. 5 years) and 5 years NBD advance replacement with delivery of the replacement device within one business day (8/5/NBD), item no. 10730
R&S® NC Support Direct 24/7 S	Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10752, 10753 or 10754)
R&S® NC Support Direct Advanced 24/7 S	Direct, prioritized 10/5 manufacturer support incl. 24/7 emergency hotline and security updates for the device, NBD advance replacement with delivery of the device on the next business day (24/7/NBD), guaranteed first response times (SLA) of max. 30 minutes for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10776, 10777 or 10778)
R&S® NC Support Direct 10/5 S	Direct, prioritized 10/5 manufacturer support and security updates for the device, guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years (item no. 10740, 10741 or 10742)

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Support	
R&S® NC Support Direct Advanced 10/5 S	Direct, prioritized 10/5 manufacturer support and security updates for the device, NBD advance replacement with delivery of the device on the next business day (10/5/NBD), guaranteed first response times (SLA) of max. 2 hours for reporting massive operational disruptions by telephone (priority 1) and max. 4 hours for all other concerns (priority 2), term-based for 1, 3, or 5 years.(item no. 10764, 10765 or 10766)
Software	
Lifecycle Management	After discontinuation (End of Sale), the device is subject to the R&S® NC Lifecycle Management. Details can be found at: Link
IT Security made in Germany	The development and quality assurance take place in Germany in accordance with high security standards. The „IT Security made in Germany“ quality label of the German IT Security Association attests to the level of security achieved.
Options	
R&S® LANCOM Security Essentials	R&S® LANCOM Security Essentials B Option 1-Year (for R&S® LANCOM SD-WAN gateways of the 700, 800, 1600, 1700, 1800, IAP, and OAP series as well as WLAN controller R&S® LANCOM WLC-60), item no. 62168
R&S® LANCOM Security Essentials	R&S® LANCOM Security Essentials B Option 3-Years (for R&S® LANCOM SD-WAN gateways of the 700, 800, 1600, 1700, 1800, IAP, and OAP series as well as WLAN controller R&S® LANCOM WLC-60), item no. 62169
R&S® LANCOM Security Essentials	R&S® LANCOM Security Essentials B Option 5-Years (for R&S® LANCOM SD-WAN gateways of the 700, 800, 1600, 1700, 1800, IAP, and OAP series as well as WLAN controller R&S® LANCOM WLC-60), item no. 62170
R&S® LANCOM Management Cloud	
R&S® LANCOM Management Cloud	R&S® LMC-A-1Y License (1 Year), enables the management of one category A device for one year via the R&S® LANCOM Management Cloud, item no. 50100
R&S® LANCOM Management Cloud	R&S® LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the R&S® LANCOM Management Cloud, item no. 50101
R&S® LANCOM Management Cloud	R&S® LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the R&S® LANCOM Management Cloud, item no. 50102
Accessories	
External antenna	R&S® AirLancer O-360Q-5G, omnidirectional outdoor antenna MIMO (4x4), for all 4G/5G bands (700-3800 MHz), item no. 61234
R&S® LANCOM Wall Mount LN	Robust mounting plate for simple, theft-proof mounting of R&S® LANCOM devices with LN housing, Item no. 61342
Item number(s)	
R&S® LANCOM 750-5G (EU)	61707

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