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R&S®LANCOM LW-700

Powerful Wi-Fi 7 - efficient, compact, and economical

The smart entry into the world of Wi-Fi 7: This access point delivers excellent performance and a compelling price-performance ratio—ideal for small to medium environments with moderate Wi-Fi requirements. Thanks to its modern, discreet design, it integrates seamlessly into a wide range of settings—whether in hotels, offices, or medical practices. It can be conveniently managed via the R&S®LANCOM Management Cloud (R&S®LMC), the intuitive WEBconfig web interface, or alternatively through a WLAN controller.

- Wi-Fi 7 access point with dual-radio Wi-Fi – concurrent operation in 2.4 GHz and 5 GHz
- 2x2 MU-MIMO for concurrent communication with multiple clients in downlink and uplink
- Discreet, practical design with integrated antennas
- 2.5 Gigabit Ethernet port
- Simple management and monitoring thanks to the intuitive web interface (WEBconfig)
- Automated operation via the R&S®LANCOM Management Cloud (R&S®LMC)
- WLAN controller support (including Layer 3 tunneling)
- Uncompromising and future-proof standards for warranty, support, and software lifecycle management
- Support for the WPA3 security standard

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Faster data transfer

Wi-Fi 7 sets new standards in stability and efficiency for wireless networks. Thanks to Multi-Link Operation (MLO), the optimal available frequency band is always used, or multiple bands are utilized in parallel to maximize bandwidth utilization and minimize latency. Multi-RU (Resource Units) enables even more flexible and efficient use of the radio spectrum during OFDMA transmissions, particularly in environments with numerous simultaneously active client devices. The enhanced 4096-QAM modulation further increases data rates and ensures even more efficient use of channel capacity. The R&S®LANCOM LW-700 achieves an aggregated maximum data transfer rate of up to 3.6 Gbps across the supported frequency bands.

Reduced overall energy consumption thanks to R&S®LANCOM Active Power Control

In light of rising energy costs and the growing societal demand for sustainable solutions, R&S®LANCOM Active Power Control provides the ideal answer for your network infrastructure. This intelligent, cloud-based optimization solution dynamically adjusts the available Wi-Fi capacity, reducing the energy consumption of your Wi-Fi infrastructure without compromising operational reliability. In "Sustainability Mode," the functions of the access points are minimized during idle phases, leading to a lower power requirement. A centralized energy monitoring system provides full transparency of your energy consumption.

Perfect Wi-Fi at the Push of a Button – with R&S®LANCOM Active Radio Control 2.0

Scan, analyze, and optimize — that's all it takes to make your Wi-Fi more efficient, even at locations with data-intensive applications, high user densities, or interfering external networks. That's exactly the task handled by the R&S®LANCOM Active Radio Control 2.0 (ARC 2.0) automation solution! Even under complex conditions, you benefit from holistic, self-learning optimization of your Wi-Fi installation with improved channel distribution, channel width usage, and transmit power. Additionally, ARC 2.0 can prioritize access points managed via the R&S®LANCOM Management Cloud according to their actual usage, providing capacity exactly where it is needed based on real usage patterns. This saves your IT administrators manual effort and ensures you get the most out of your Wi-Fi installation. Techpaper: R&S®LANCOM Active Radio Control 2.0

Flexible operation via R&S®LANCOM Management Cloud, modern web interface or WLAN controller

Choose freely between operation via the R&S®LANCOM Management Cloud, stand-alone via WEBconfig or a WLAN controller! In cloud mode, the R&S®LANCOM LW-700 becomes part of a user-friendly, holistic and automated network management system. Even in stand-alone operation, the LW-700 offers fast configuration and comprehensive management and monitoring thanks to the intuitive, clear web interface of the new WEBconfig. As a third option, management can also be selected centrally via a WLAN controller.

Carpooling in the radio field - OFDMA for more efficient data traffic

Orthogonal Frequency Division Multiple Access (OFDMA) also aims to optimize the use of the radio field: The frequency range of a Wi-Fi channel is divided into several frequency blocks within a unit of time, creating sub-channels (sub-carriers) with a narrow channel width of up to 2 MHz. This prevents small data packets, which often originate from IoT devices, from taking up and blocking an entire channel with a width of 20, 40 or even 80 MHz. In addition, the LW-700 bundles several sub-channels and transports them together like a kind of carpool to enable the freest and smoothest possible radio traffic.

Practical housing design

The design of the R&S®LANCOM LW-700 is based on decades of market experience and valuable user feedback. The flattened shape on the sides gives it a discreet appearance that blends seamlessly into any environment. The mounting plate included in the accessories is compatible with the drill holes of the previous models R&S®LANCOM LW-600 and R&S®LANCOM LW-500.

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Wi-Fi product specification	
Frequency band 2.4 GHz and 5 GHz	2400-2483.5 MHz (ISM), 5150-5700 MHz (depending on country-specific restrictions)
Integrated Antenna Gain (peak gain)	up to 5 dBi in 2.4 GHz and 5 GHz
Data rates IEEE 802.11be	► up to 688 MBit/s nach according to IEEE 802.11be with MCS13/QAM-4096 at 2,4 GHz, 2x2 MIMO and 40 MHz channel width ► up to 2882 MBit/s according to IEEE 802.11be with MCS13/QAM-4096 at 5 GHz, 2x2 MIMO and 160 MHz channel width
Data rates IEEE 802.11ax	► up to 575 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 2.4 GHz, 4x4 MIMO and 40 MHz channel width ► up to 2400 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 5 GHz, 2x2 MIMO and 160 MHz channel width
Data rates IEEE 802.11n	300 Mbps according to IEEE 802.11n with MCS15 (fallback to 6.5 Mbps with MCS0).
Data rates IEEE 802.11a/ h	54 Mbps (fallback to 48, 36 , 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection), fully compatible with TPC (adjustable power output) and DFS (automatic channel selection, radar detection)
Data rates IEEE 802.11b/g	54 Mbps to IEEE 802.11g (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection)
Output power per radio chain	► 2,4 GHz: 11b 12dBm; 11g 54 MBit 12dBm; HT20/40 MCS0 14dBm; HT40 MCS9 14dBm; HE40 MCS11 14dBm ► 5 GHz: HT20 MCS0 22dBm; HT20 MCS7 20dBm; VHT80 MCS9 19dBm; HE80 MCS11 18 dBm; EHT160 MCS13 17dBm
Radio channels 5 GHz	Up to 16 non-overlapping channels (available channels and further obligations such as automatic DFS dynamic channel selection depending on national regulations), configurable maximum transmit power
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (depending on country-specific restrictions), configurable maximum transmit power
Multi-SSID	Up to 32; time-controlled activation and deactivation of Wi-Fi networks
Concurrent Wi-Fi clients	Up to 256 clients per WiFi radio
Hotspot	Support for the Cloud-managed Hotspot in combination with the R&S®LANCOM Management Cloud; Support for Frederix Hotspot (in combination with R&S®LANCOM Management Cloud)
WLAN operation modes	Access Point (infrastructure), client mode, WDS/point-to-point links
Supported Wi-Fi standards	
IEEE standards	IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave 2, IEEE 802.11n, IEEE 802.11a, IEEE 802.11g, IEEE 802.11b, IEEE 802.11i, IEEE 802.1X authenticator, IEEE 802.1X LAN supplicant (only on PoE port), IEEE 802.11h, IEEE 802.11d, IEEE 802.11v
Standard IEEE 802.11be	
Supported features	MLO, OFDMA Multi-RUs, QAM-4096
Standard IEEE 802.11ax	
Supported features	2x2 DL-/UL-MU-MIMO, DL-/UL-OFDMA, triggered target-wake-time, BSS coloring, QAM-1024, 160 MHz channels
Standard IEEE 802.11ac	
Supported features	2x2 MIMO, 80 MHz channels, MU-MIMO, QAM-256
Standard IEEE 802.11n	
Supported features	2x2 MIMO, 40-MHz channels, 20/40MHz coexistence mechanisms in the 2.4 GHz band, MAC aggregation, Block Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Density Parity Check), MRC (Maximal Ratio Combining), Short Guard Interval
Operating modes	
Modes	Standalone, WLC-managed or LANCOM Management Cloud managed
Wi-Fi security	
Encryption options	IEEE 802.1X (WPA3-Enterprise, WPA2-Enterprise), WPA3-Personal, IEEE 802.11i (WPA2-Personal), WEP, LEPS-U (Private PSK, only possible with WPA2), LEPS-MAC
Encryption algorithms	AES-CCMP, AES-GCMP, TKIP, RC4
EAP types (authenticator)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-FAST

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Roaming	
Roaming	IAPP (Inter Access Point Protocol), Fast Roaming (802.11r), OKC, Pre-Authentication, 802.11k
R&S®LANCOM Active Radio Control	
R&S®LANCOM Active Radio Control™ 2.0	automated optimization of WLAN channels, channel bandwith and transmit power, controlled by the R&S®LANCOM Management Cloud
Band Steering	active steering of clients between the 2.4 GHz and 5 GHz band
R&S®LANCOM Active Power Control	
R&S®LANCOM Active Power Control	R&S®LANCOM Sustainability Mode and energy consumption monitoring for the whole network, controlled by the R&S®LANCOM Management Cloud
Layer 2 functions	
VLAN	4094 VLAN IDs, static assignment to SSIDs, dynamic Assignment via LEPS-U/LEPS-MAC or 802.1X (RADIUS)
Quality of Service	WME based on IEEE 802.11e
Bandwidth limitation	per SSID, per Client
Multicast	IGMP-Snooping, Multicast-to-Unicast-conversion on WLAN interfaces
Protocols	LLDP, Proxy ARP, LACP, L2TPv3, (R)STP
Network	
Protocols	IPv4, IPv6, dual stack
Interfaces	
Ethernet ports	▶ ETH1: 10/100/1000/2.5G BASE-T (RJ45/8P8C), PoE-in 802.3at
Internal antenna	internal Antennas for WLAN
Hardware	
Power consumption	idle: 8.0W; max. 15.5W
Environment	Temperature range 0–40 °C. Humidity 0–90 %; non-condensing
Housing	robust housing made of polycarbonate and aluminium, kensington-lock, 185 x 185 x 39 mm
Weight (including mounting plate)	820 g
Power supply	12 V DC external plug-in power supply (not included) or PoE (Power-over-Ethernet) according to IEEE 802.3at. Operation with PoE according to 802.3af only for commissioning (no WLAN operation).
Management and monitoring	
Management	LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANconfig, LL2M, external Syslog, Packet Capturing, TACACS+
Monitoring	R&S®LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANmonitor, SNMP
Conformity*	
Europe/EFTA	CE
Australia / New Zealand	RCM
Applicable for use in medical environments (EN 60601-1-2)	conforms to EN 60601-1-2
Country of Origin	Engineered in Germany, Made in Vietnam
***) Note**	The full text of the specific Declaration of Conformity is available here

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Scope of delivery	
Documentation	Installation Guide (DE/EN); Mounting Instructions (DE/EN)
Mounting	Robust low profile mounting plate, mounting clips for mounting on suspended ceilings
Accessories	
R&S®LANCOM WLAN PSU 2.5A (EU, white, Bulk 10)	10x white R&S®LANCOM WLAN PSU 230V to 12V/2.5A DC power adapter, item no. 61809 (EU)
R&S®LANCOM PoE++ 10G Injector	1-port PoE injector with up to 10 Gigabit support, integrated power supply, compatible with the standard IEEE 802.3af/at/bt (up to 65W), item no. 61839 (EU)
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®LANCOM 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 Support Access	Exclusively forR&S®NC Community partners: Personal manufacturer support (best effort) and security updates for the device, valid for all service categories, term-based (starting at the beginning of each quarter) for 1, 3, or 5 years (item no. 10804, 10805, or 10806)
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 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 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 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)
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)
Software	
Lifecycle Management	After discontinuation (End of Sale), the device is subject to the R&S®LANCOM Lifecycle Management. Details can be found here.
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.
R&S®LANCOM Management Cloud	
R&S®LMC-A-1Y LMC License	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

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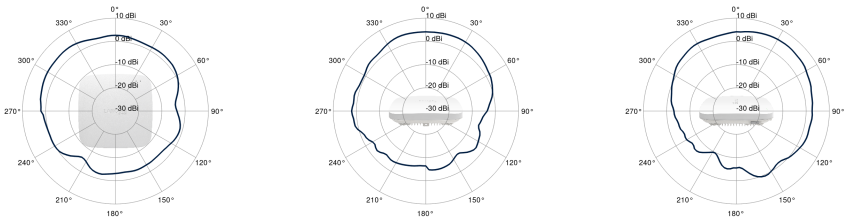
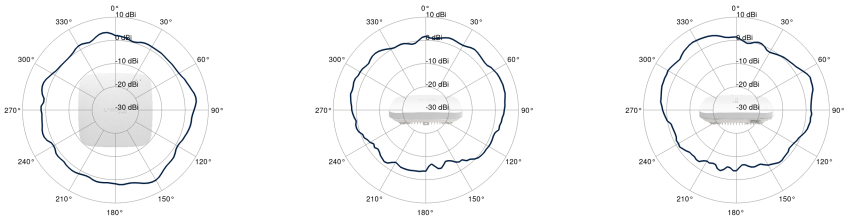
R&S®LANCOM Management Cloud	
R&S®LMC-A-3Y LMC License	R&S®LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the R&S®LANCOM Management Cloud, item no. 50101
R&S®LMC-A-5Y LMC License	R&S®LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the R&S®LANCOM Management Cloud, item no. 50102
Item number(s)	
R&S®LANCOM LW-700	61931
R&S®LANCOM LW-700 (Bulk 5)	61932
Antenna Gain	

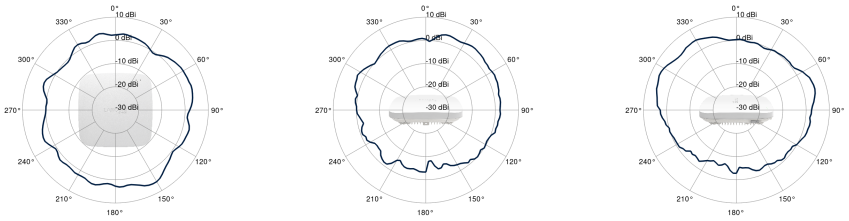
antenna pattern, 2.4 GHz

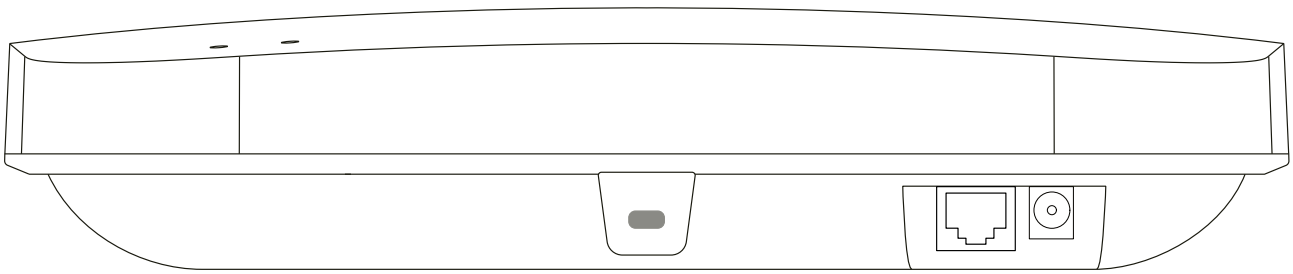


antenna pattern, 5.2 GHz



antenna pattern, 5.6 GHz





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