LCOS LX 7.14

R&S®LANCOM OW-702

Wi-Fi 7 for demanding outdoor areas

Whether in cold stores, storage areas, parking lots, or other open operating areas, the R&S®LANCOM OW-702 provides powerful Wi-Fi wherever a stable and fast connection is required under changing weather conditions. Equipped with state-of-the-art Wi-Fi 7 technology, this outdoor access point delivers exceptionally low latency and high data rates per device. With 2x2 dual-stream, this access point is particularly suitable for Wi-Fi scenarios with low to medium user density. The omnidirectional antennas included in the scope of delivery provide comprehensive Wi-Fi coverage. Optionally, suitable sector antennas can be used to target coverage to specific areas. The integrated tilt sensor, in combination with the R&S®LANCOM Management Cloud (R&S®LMC), enables verification of correct device installation and detects changes in alignment caused by external influences. In case of reception issues, the mounting situation can also be analyzed remotely.

- Wi-Fi 7 outdoor access point with 2x2 MIMO in 2.4 GHz and 5 GHz
- 2x2 external omnidirectional antennas
- 2.5 Gigabit Ethernet interface
- Robust IP67 protective housing - reliable even at extreme temperatures (-30°C to +65°C)
- BLE 5.4 support
- Connection of external antennas with N connector
- Automated operation via the R&S®LANCOM Management Cloud (R&S®LMC)
- WLAN controller support (including Layer 3 tunneling)
- In the box: Mounting kit for pole and wall mounting, 4x dual-band antennas for 2.4 GHz and 5 GHz

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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 OW-702 achieves an aggregated maximum data transfer rate of up to 3.6 Gbps across the supported frequency bands.

High reliability in all weather conditions

The R&S®LANCOM OW-702 has a rugged IP67 protective housing, making it completely dust- and waterproof. In addition, a temperature range of -30°C to +65°C guarantees reliable operation under extreme conditions.

Secure integration of external users

Using a cloud-managed hotspot via R&S®LANCOM Management Cloud, the R&S®LANCOM OW-702 is ideal for providing WLAN hotspots. The user benefits from secure and convenient Wi-Fi access, and the hotspot provider has the assurance that its own network remains separate from the guest network.

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.

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 OW-702 becomes part of a user-friendly, holistic and automated network management system. Even in stand-alone operation, the OW-702 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.

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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)
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 1200 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 5 GHz, 2x2 MIMO and 80 MHz channel width ► up to 575 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 2.4 GHz, 2x2 MIMO and 40 MHz channel width
Data rates IEEE 802.11ac/n	867 Mbps according to IEEE 802.11ac with MCS9 (fallback to 6.5 Mbps with MCS0).
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 14dBm; 11g 54 MBit 15dBm; HT20/40 MCS0 16/18dBm; HT40 MCS9 18dBm; HE40 MCS11 18dBm ► 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 (simultaneous use of up to 16 independent Wi-Fi networks at WLAN interface 1 and up to 16 independent Wi-Fi networks at WLAN interface 2); time-controlled activation and deactivation of Wi-Fi networks
Hotspot	Support for the Cloud-managed Hotspot in combination with the R&S®LANCOM Management Cloud
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, 80 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
Roaming	
Roaming	IAPP (Inter Access Point Protocol), Fast Roaming (802.11r), OKC, Pre-Authentication, 802.11k

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R&S®LANCOM Active Radio Control	
Band Steering	Steering of 5GHz clients to the corresponding high-performance frequency band; support for 802.11v
Bluetooth Low Energy (BLE)	
Support of Bluetooth Low Energy technology (BLE)	The device can scan the environment for BLE devices and can forward the resulting scan data via a REST API.
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
Network	
Protocols	IPv4, IPv6, dual stack
Interfaces	
Ethernet ports	► ETH: 10/100/1000/2.5GBASE-T (RJ45/8P8C), PoE (Power over Ethernet) ► The ethernet ports offer a water-proof cable gland for use with outdoor ethernet cables with an outer diameter of 6.5mm to 8.5mm.
Antenna connectors	Four N-type antenna connectors
Hardware	
Power supply	PoE 802.3at
Power consumption	max. 16W
Environment	temperature range -30°C - +65°C, protection class IP67
Housing	Robust plastic housing, IP67 protection rating, accessories for wall and pole mounting included; Dimensions 255×255×73.5mm; Dimensions of the included antennas 110×22.5mm (dimensions of one single external antenna)
Weight	2.68 kg incl. antennas and mounting kit; 2.26 kg incl. antennas, without mounting kit
Management and monitoring	
Management	R&S®LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANconfig, LL2M, external Syslog, Packet Capturing
Monitoring	R&S®LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANmonitor, SNMP
Conformity*	
Europe/EFTA	CE
Australia / New Zealand	RCM
Country of Origin	Engineered in Germany, Made in Vietnam
***) Note**	The full text of the specific Declaration of Conformity is available here
Scope of delivery	
Documentation	Installation Guide (DE/EN); Mounting Instructions (DE/EN)
Mounting kit	Mounting kit for wall and pole mounting
Antennas	Four dual band WiFi omni antennas (2 dBi at 2,4 GHz; 3 dBi at 5 GHz)

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Accessories	
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)
R&S®LANCOM OW Ethernet Cable (15 m)	outdoor ethernet cable, 15 m (black, 2x RJ45), item no. 61336
R&S®LANCOM OW Ethernet Cable (30 m)	outdoor ethernet cable, 30 m (black, 2x RJ45), item no. 61337
R&S®AirLancer ON-D8a	Outdoor Wi-Fi directional antenna with 8° directional beam, item no. 61708
R&S®AirLancer ON-QT60	Outdoor Wi-Fi sector antenna with 60° directional beam, item no. 61263
AirLancer ON-QT90	Outdoor Wi-Fi sector antenna with 90° directional beam, item no. 61264
R&S®AirLancer ON-Q360ag	Outdoor Wi-Fi omnidirectional antenna, item no. 61246
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 Replacement Basic M	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. 10721
R&S®NC Replacement Advanced M	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. 10731
R&S®NC Support Direct Advanced 24/7 M	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. 10779, 10780 or 10781)
R&S®NC Support Direct 24/7 M	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. 10755, 10756 or 10757)
R&S®NC Support Direct Advanced 10/5 M	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. 10767, 10768 or 10769)
R&S®NC Support Direct 10/5 M	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. 10743, 10744 or 10745)
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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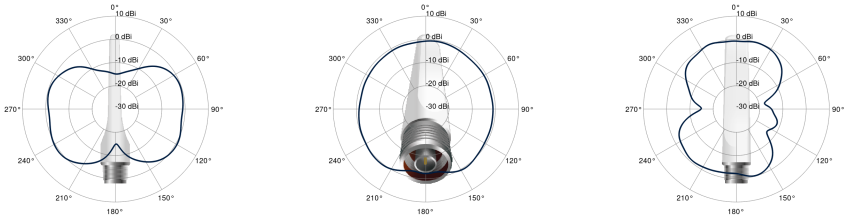
R&S®LANCOM Management Cloud	
R&S®LMC-A-3Y LMC License	R&S®LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the R&S®LANCOM Management Cloud, item no. 50101
R&S®LMC-A-5Y LMC License	R&S®LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the R&S®LANCOM Management Cloud, item no. 50102

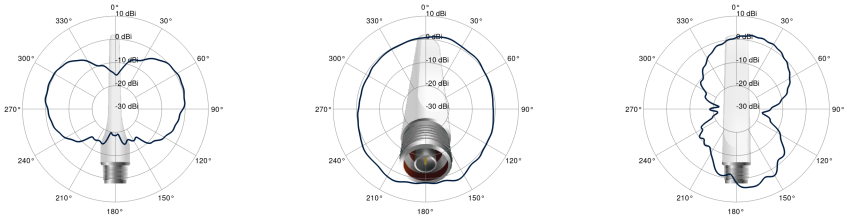
Item number(s)	
R&S®LANCOM OW-702	61846

Antenna Gain

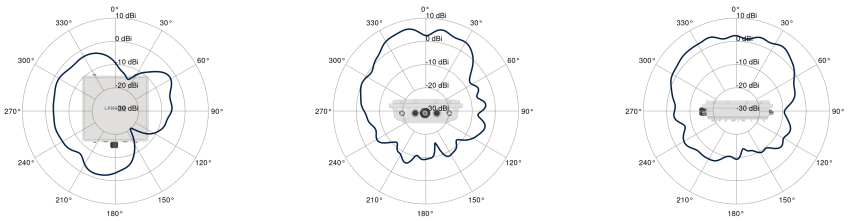
rod antenna pattern (ext. rod antenna), 2.4 GHz



rod antenna pattern (ext. rod antenna), 5.6 GHz



antenna pattern, BLE



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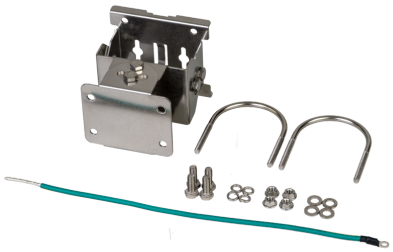

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