

LCOS LX 7.14

R&S® LANCOM OW-602

Highspeed Wi-Fi 6 for harsh environments



In parking lots, cold storage, warehouses, outdoor areas, or school grounds - wherever professional WLAN needs to be provided under any weather conditions, the R&S® LANCOM OW-602 is the ideal and cost-effective solution. This Wi-Fi 6 outdoor access point offers low latency and high throughput per client - especially in low to medium device density environments. Included omnidirectional antennas enable wide-area coverage with the best Wi-Fi for an excellent user experience. Optional sector antennas enable targeted coverage of areas.

- ▶ Dual-concurrent Wi-Fi - parallel operation in 2.4 GHz and 5 GHz in Wi-Fi 6 (IEEE 802.11ax)
- ▶ 2x2 external omnidirectional antennas
- ▶ 2x 1 Gigabit Ethernet interface
- ▶ Robust IP67 protective housing - reliable even at extreme temperatures (-30°C to +65°C)
- ▶ Bluetooth Low Energy 5.1
- ▶ Automated operation via the R&S® LANCOM Management Cloud (R&S® LMC)
- ▶ WLAN controller support
- ▶ Support of the security standard WPA3

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Dual concurrent Wi-Fi with an aggregated datarate of up to 1,775 Mbps

The R&S® LANCOM OW-602 offers WLAN in the Wi-Fi 6 standard (IEEE 802.11ax) and can provide simultaneously both clients in the 2.4 GHz frequency band and modern end devices in the 5 GHz band with fast WLAN. Wi-Fi 6 technology enables transmission rates of up to 1,200 Mbps in 5 GHz and up to 575 Mbps in 2.4 GHz.

Maximum reliability in all weather conditions

The R&S® LANCOM OW-602 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.

Zero-Touch Deployment

Quick and easy network integration of the access point as well as automatic configuration assignment-without manual configuration. In WLAN controller- or R&S® LANCOM Management Cloud-based installations, the access point immediately receives a suitable configuration after network authentication.

Integrated Bluetooth Low Energy technology

The Bluetooth Low Energy radio module integrated in the R&S® LANCOM OW-602 is the technical basis for modern BLE beaconing-based applications, such as asset tracking or visitor counting.

Operates via the R&S® LANCOM Management Cloud

The R&S® LANCOM OW-602 offers unsurpassed user-friendliness: Managed through the R&S® LANCOM Management Cloud, it integrates into a holistic, automated network orchestration system based on software-defined networking technology.

Uncompromised additional services for maximum future security

The R&S® LANCOM OW-602 supports the fast WLAN standard IEEE 802.11ax (Wi-Fi 6), so you are technically well equipped for future challenges. R&S® LANCOM provides a warranty of 3 years on the OW-602, which can easily be extended to 5 years with the Warranty Basic Option M or the Warranty Advanced Option M. The OW-602 is also covered by a software warranty. On the software side, you also benefit from the high R&S® LANCOM standards: Several times a year, you receive free major releases of the LCOS LX operating system with new, future-proof features. Even if a product is discontinued, we offer free major releases, critical security fixes (security updates) based on the last available software version, and free technical manufacturer support for at least another 2 years as part of R&S® LANCOM software lifecycle management.

LANCOM security for wireless networks

WPA3, the successor to WPA2, offers important enhancements and security features for small ("WPA3-Personal") and large ("WPA3-Enterprise") networks. WPA3-Personal uses the modern and secure authentication method Simultaneous Authentication of Equals (SAE).

Secure integration of external users

Using a cloud-managed hotspot via R&S® LANCOM Management Cloud, the R&S® LANCOM OW-602 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.

R&S® LANCOM OW-602

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	up to 5 dBi in 2.4 GHz, up to 7 dBi in 5 GHz
Data rates IEEE 802.11ax	<ul style="list-style-type: none"> ▶ 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)
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 802.11ax, 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 802.11ax	
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
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.

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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	<ul style="list-style-type: none"> ▶ 1x 10/100/1000BASE-T (RJ-45), PoE (Power over Ethernet) ▶ 1x 10/100/1000BASE-T (RJ-45) ▶ Both ethernet ports offer a water-proof cable gland for use with outdoor ethernet cables with an outer diameter of 6.5mm to 8.5mm. ▶ The LAN2 cable gland comes with a pre-mounted dummy plug to enable waterproof installation where only a single ethernet connection is needed.
Antenna connectors	Four N-type antenna connectors
Hardware	
Power supply	PoE 802.3at
Power consumption	max. 15.2W
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 250×200×80mm; Dimensions of the included antennas 190×23mm (dimensions of one single external antenna)
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	Software designed in Germany, Assembled in Taiwan
*) 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	Two 2.4 GHz WiFi omni antennas (5 dBi), two 5 GHz WiFi omni antennas (7 dBi)
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

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Accessories	
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
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

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Item number(s)

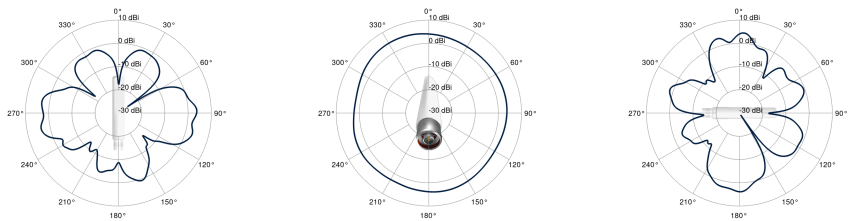
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Transmit power and receiver sensitivity

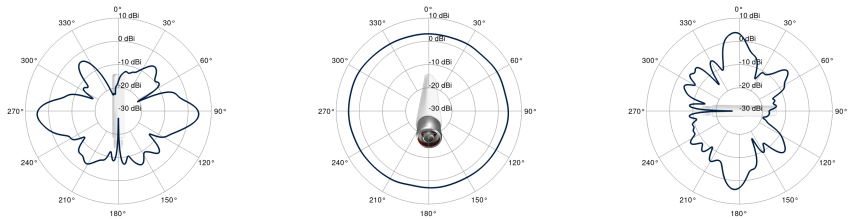
		per chain	two MIMO chains	including internal antenna	receiver sensitivity
802.11b (2,4 GHz)	1 Mbps	21	24	29	-96
	11 Mbps	21	24	29	-89
802.11g (2,4 GHz)	6 Mbps	21	24	29	-92
	54 Mbps	20	23	28	-76
802.11n (2,4 GHz)	MCS0 HT20	20	23	28	-91
	MCS7 HT20	20	23	28	-73
802.11a (5 GHz)	6 Mbps	19	22	29	-90
	54 Mbps	18	21	28	-72
802.11n (5 GHz)	MCS0 HT20	17	20	27	-90
	MCS7 HT20	15	18	25	-72
802.11ax (5 GHz)	MCS9 HE80	19	22	29	-85
	MCS11 HE80	18	21	28	-58

Antenna Gain

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



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

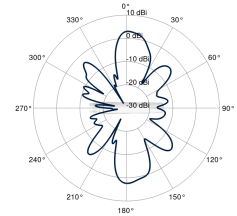
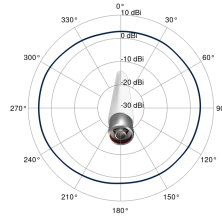
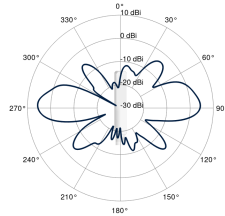


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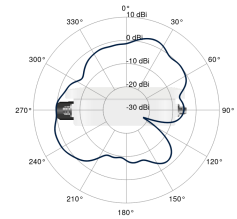
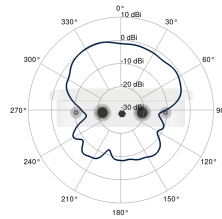
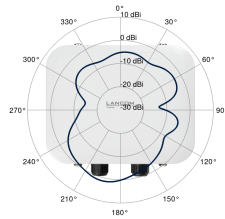
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Antenna Gain

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



antenna pattern, BLE



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