

LCOS LX 7.14

R&S®LANCOM LX-6200E

Fast Wi-Fi 6 and digital signage



The R&S®LANCOM LX-6200E is the ideal combo solution for small and medium-sized deployment environments: With Wi-Fi 6, it delivers strong Wi-Fi performance to end users. The integrated wireless ePaper interface enables digital signage solutions. At the same time, the coexistence feature guarantees reliable operation of your Wireless ePaper displays even in the event of intensive Wi-Fi usage.

- ▶ Dual concurrent Wi-Fi – parallel operation at 2.4 GHz and 5 GHz with Wi-Fi 6 (IEEE 802.11ax)
- ▶ Integrated radio module for energy-saving communication with R&S®LANCOM ePaper displays or electronic price labels
- ▶ 2x2 multi-user MIMO for simultaneous beam-steering for multiple clients in down- an uplink mode
- ▶ OFDMA for efficient Wi-Fi channel usage
- ▶ USB 2.0 port for connecting wireless IoT systems
- ▶ Bluetooth Low Energy 5.1
- ▶ Automated operation via the R&S®LANCOM Management Cloud (R&S®LMC)
- ▶ WLAN controller support (including layer-3 tunneling)
- ▶ Support of the security standard WPA3
- ▶ Uncompromising and future-proof standards for warranty, support, and software lifecycle management

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

The R&S®LANCOM LX-6200E offers the Wi-Fi 6 standard (IEEE 802.11ax) for fast wireless LAN for clients in the 2.4- and 5-GHz bands. Wi-Fi 6 technology achieves transmission rates of up to 1,200 Mbps at 5 GHz and simultaneously up to 575 Mbps at 2.4 GHz.

OFDMA – carpooling in the radio field

Orthogonal Frequency Division Multiple Access (OFDMA) divides the frequency range of a Wi-Fi channel into a number of frequency blocks per unit of time. This creates subcarriers, which can be as narrow as just 2 MHz. Small data packets, so typical of IoT devices, no longer block entire 20-, 40- or even 80-MHz channels all by themselves. On the other hand, the Wi-Fi 6 access point is able to bundle multiple subcarriers. This is bit like carpooling, which stops the traffic being blocked by cars with just one occupant: Instead, the streets are freed up with just a few cars carrying several occupants.

2x2 Multi-User MIMO for downlinks and uplinks

Multi-user MIMO (MU-MIMO for short) simultaneously distributes all of the available spatial streams of the R&S®LANCOM LX-6200E between several different clients, rather than one after the other as was formerly the case. The available bandwidth is used efficiently and delays in the wireless network are substantially reduced. With Wi-Fi 6, MU-MIMO is not, as before, only usable in the downlink but now also in the uplink as well.

Professional IoT support via BLE and USB

With the R&S®LANCOM LX-6200E, you can easily dive into the world of the Internet-of-Things (IoT). Support for Bluetooth Low Energy (5.1) and USB 3.0 opens up many possibilities for you to communicate with modern WLAN sensors in devices or objects and use innovative applications such as asset tracking or digital signage with Wireless ePaper. In this way, you can easily operate solutions for digital room signage, electronic shelf labels, and other ePaper applications via the optionally available R&S®LANCOM Wireless ePaper USB.

Managed via R&S®LANCOM Management Cloud, WLAN controller, or stand-alone

The R&S®LANCOM LX-6200E offers the greatest possible versatility in operation: Managed through the R&S®LANCOM Management Cloud, it integrates into a holistic, automated network orchestration system based on software-defined networking technology. It is also able to operate with central management by R&S®LANCOM WLAN controller or even in stand-alone mode.

Wi-Fi security standard WPA3

WPA3, the successor of WPA2, offers important upgrades and security features for small ("WPA3-Personal") and large networks ("WPA3-Enterprise").

Uncompromising additional services for maximum future security

The R&S®LANCOM LX-6200E supports the fast WLAN standard IEEE 802.11ax (Wi-Fi 6), so that you are technically well equipped for future challenges. R&S®LANCOM gives you a 3-year warranty on the LX-6200E, which can easily be extended to 5 years with the Warranty Basic Option S or the Warranty Advanced Option S. And you also benefit from the high R&S®LANCOM standards on the software side: 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 no longer available, we offer free major releases, critical security fixes (security updates) based on the last available software version, and free technical manufacturer support as part of the R&S®LANCOM software lifecycle management for at least another 2 years.

R&S® LANCOM LX-6200E

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 3 dBi in 2.4 GHz, up to 4 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
Wireless ePaper Displays	
Support for LANCOM Wireless ePaper Displays	The device is equipped with a radio module to control LANCOM Wireless ePaper Displays in the 2.4 GHz frequency band.
R&S® LANCOM Active Radio Control	
Band Steering	Steering of 5GHz clients to the corresponding high-performance frequency band; support for 802.11v

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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	
USB 2.0 host port	USB 2.0 host port (USB-A)
Ethernet ports	1 x 100/1000BASE-T autosensing (RJ-45), IEEE 802.3az, PoE (Power over Ethernet)
Internal antenna	Two internal antennas per radio interface (four in total)
Hardware	
Power supply	12 V DC, external power adapter (230 V), PoE (Power over Ethernet), compliant with IEEE 802.3at
Power consumption	max. 17.3W
Environment	Temperature range 0–40 °C. Humidity 0–90 %; non-condensing
Housing	Robust synthetic housing with aluminum bottom, rear connectors, ready for wall mounting, Kensington lock; 205 x 42 x 205 mm (W x H x D)
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	Made in Germany
*) 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)
Cable	Ethernet cable, 1 m
Power supply unit	External power adapter (100-240 V), 12 V/2A DC, EU plug (not included in bulk delivery)
Accessories	
R&S®LANCOM WLAN PSU (EU, white, Bulk 10)	10x white R&S®LANCOM WLAN PSU 230V to 12V/2A DC power adapter, item no. 61814 (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)

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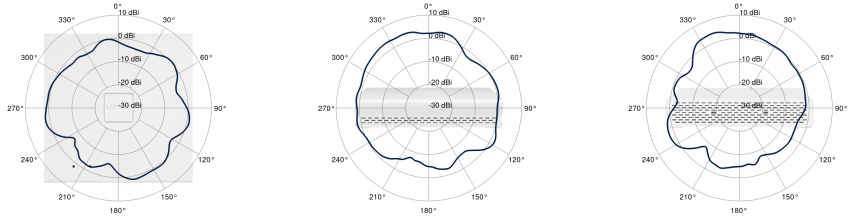
Accessories	
R&S® LANCOM Wall Mount LN	Robust mounting plate for simple, theft-proof mounting of R&S® LANCOM AP series LN-xxxx, LX-64xx, LX-62xx, Item no. 61342
R&S® LANCOM Wireless ePaper Displays	2.7" R&S® LANCOM Wireless ePaper Display, item no. 62213 (bulk 5), 4.4" R&S® LANCOM Wireless ePaper Display, item no. 62211 and item no. 62214 (bulk 5), 7.4" R&S® LANCOM Wireless ePaper Display, item no. 62212 and item no. 62215 (bulk 5)
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 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
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 LX-6200E	61833
R&S® LANCOM LX-6200E (Bulk 10)	61835

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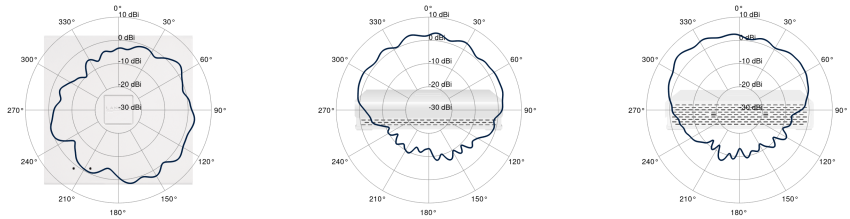
R&S® LANCOM LX-6200E

Antenna Gain

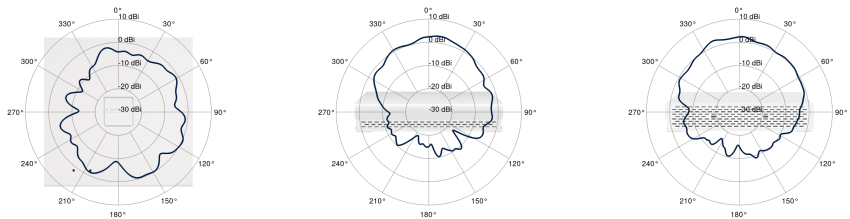
antenna pattern, 2.4 GHz



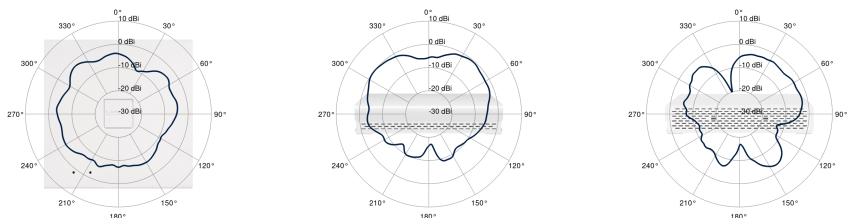
antenna pattern, 5.2 GHz



antenna pattern, 5.6 GHz



antenna pattern, BLE



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