

LANCOM LX-7400

Powerful Wi-Fi 7 all-rounder for modern business environments



The new LANCOM LX-7400 Wi-Fi 7 access point is the ideal choice for modern Wi-Fi projects in offices, schools, and hotels. As a powerful all-round Wi-Fi solution, it combines high performance with flexible application options, making it perfect for environments with medium to high usage. Featuring the latest Wi-Fi technology, it ensures fast connections and high stability—even when many end devices are connected simultaneously.

- Wi-Fi 7 access point with 2x2 MIMO at 2.4 GHz and 4x4 MIMO at 5 and 6 GHz, delivering a maximum data rate of 18 Gbps
- OFDMA for more efficient Wi-Fi channel utilization
- 1x 10 GE port with PoE++ (IEEE 802.3bt) and 1x 1 GE port
- IoT support: BLE 5.4 and USB 2.0
- 1x 12V power input (power supply not included)
- Holistic, automated Wi-Fi optimization with LANCOM Active Radio Control 2.0
- Housing with IP50 protection rating and UL 2043 compliance (certified fire resistance and low smoke emission in case of fire)
- Innovative design with flexible, theft-proof mounting plate
- Automatic detection of wall or ceiling mounting via position sensor
- Energy-saving functions with precise power consumption monitoring (LANCOM Active Power Control)
- Automated provisioning, operation, and optimization via the LANCOM Management Cloud (LMC)
- Support for Wi-Fi controller (including Layer 3 tunneling)
- Suitable for use with electrical medical devices in non-life-critical environments (EN 60601-1)



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Faster data transfer

With Wi-Fi 7, you benefit from a speed boost of up to 240% compared to Wi-Fi 6 in real-world applications. This is made possible by a doubling of the available frequency spectrum for Wi-Fi through additional 6 GHz frequencies, a doubled maximum channel width (320 MHz instead of the previous 160 MHz), and an increased data density during transmissions (4096 QAM instead of 1024 QAM in Wi-Fi 6). As a result, the LANCOM LX-7400 delivers a maximum aggregated data rate of 18 Gbps across all frequency bands.

More stable transmission quality

Multi-link operation (MLO) automatically uses the frequency band with better quality or even uses two frequency bands simultaneously. In addition, Multi-RU and Puncturing effectively mitigates the previously serious consequences of interference signals. This ensures significantly more reliable transmission and reception quality, especially in radio environments with high signal density.

Housing design optimized for field use

The design of the LANCOM LX-7400 is based on decades of market experience and valuable user feedback. Its flattened side contours give it a discreet appearance, allowing it to blend seamlessly into any environment. With IP50 protection rating, including rubber-sealed ports, the access point is dustproof. Additionally, it features certified fire resistance and low-smoke emissions in case of fire (UL 2043). The compact mounting bracket with a security lock not only helps prevent opportunistic theft but is also compatible with standard mounting hole patterns from various manufacturers. Optionally, the LANCOM LX-7000 series offers a specially designed mounting system for ergonomic and time-saving installation on T-bars of suspended ceilings.

Always keeping track – position sensor for optimal Wi-Fi performance

With the integrated position sensor, you always have full control over the physical orientation of your access points. Models in the LX-7000 series automatically detect whether they are correctly mounted on a wall or ceiling. This status is clearly displayed in the LANCOM Management Cloud or via WEBconfig, making it easy to verify both during initial setup and ongoing monitoring—without the need for on-site inspections. This saves valuable time during troubleshooting and ensures consistently high Wi-Fi performance.

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 LX-7400 bundles several sub-channels and transports them together like a kind of carpool to enable the freest and smoothest possible radio traffic.



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Professional IoT support

With the LANCOM LX-7400, you can easily dive into the world of the Internet-of-Things (IoT). Support for BLE 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 LANCOM Wireless ePaper USB.

Interference-free use of the 6 GHz frequency band for modern and future applications

Take a seat in the VIP lounge in the Wi-Fi: The LANCOM LX-7400 offers an exclusive Wi-Fi radio field free of interference in the 6 GHz frequency band. While the 2.4 and 5 GHz bands can be used by other wireless technologies such as alarm systems or audio applications, the broadband 6 GHz spectrum is intended for exclusive Wi-Fi use. This enables interference-free Wi-Fi connections with minimal latency and maximum data throughput. Fast-response connections and time-critical Wi-Fi applications in particular benefit from this.



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Wi-Fi product specification

| | |
|---|---|
| Frequency band 2.4 GHz, 5 GHz and 6 GHz | 2400-2483.5 MHz (ISM), 5150-5700 MHz (depending on country-specific restrictions), 5925-6425 MHz |
| Integrated Antenna Gain (peak gain) | up to 5 dBi in 2.4 GHz, up to 7 dBi in 5 GHz and up to 7 dBi in 6 GHz |
| Data rates IEEE 802.11be | <ul style="list-style-type: none"> → up to 11530 MBit/s according to IEEE 802.11be with MCS13/QAM-4096 at 6 GHz, 4x4 MIMO and 320 MHz channel width → up to 5765 MBit/s according to IEEE 802.11be with MCS13/QAM-4096 at 5 GHz, 4x4 MIMO and 160 MHz channel width → 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 |
| Data rates IEEE 802.11ax | <ul style="list-style-type: none"> → up to 4800 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 6 GHz, 4x4 MIMO and 160 MHz channel width → up to 4800 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 5 GHz, 4x4 MIMO and 160 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 802.11n | 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 6 GHz | Up to 24 non-overlapping channels (EU; 20 MHz channel width) |
| 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 LANCOM Management Cloud; Support for Frederix Hotspot (in combination with 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 |
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Standard IEEE 802.11be

Supported features MLO, OFDMA Multi-RUs, QAM-4096, 320 MHz channel bandwidth in 6 GHz

Standard IEEE 802.11ax

Supported features 2x2/4x4 DL-/UL-MU-MIMO, DL-/UL-OFDMA, triggered target-wake-time, BSS coloring, QAM-1024, 160 MHz channels

Standard IEEE 802.11ac

Supported features 2x2/4x4 MIMO, 80 MHz channels, MU-MIMO, QAM-256

Standard IEEE 802.11n

Supported features 2x2/4x4 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

LANCOM Active Radio Control

LANCOM Active Radio Control™ 2.0 automated optimization of WLAN channels, channel bandwidth and transmit power, controlled by the LANCOM Management Cloud

Band Steering active steering of clients between the 2.4 GHz and 5 GHz band

LANCOM Active Power Control

LANCOM Active Power Control LANCOM Sustainability Mode and energy consumption monitoring for the whole network, controlled by the LANCOM Management Cloud

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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Bluetooth Low Energy (BLE)

ESL communicates with BLE 5.4 compatible ESL displays (via future software update)

Layer 2 functions

VLAN 4096 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/5G/10G GBASE-T (RJ45/8P8C), PoE-in 802.3bt
 → ETH2: 10/100/1000 GBASE-T (RJ45/8P8C)

USB 2.0 host port USB 2.0 host port (USB-A)

Internal antenna integrated Antennas for WLAN and BLE

Supported IoT Modules

IoT USB modules LANCOM Wireless ePaper USB, SES-imagotag Retail IoT Connector, Hanshow HS_C09978 ESL Controller, SoluM EGU200NA0X ESL GEN2 USB Gateway

Hardware

Environment Temperature range 0–40 °C. Humidity 0–90 %; non-condensing

Housing robust housing made of polycarbonate and aluminium, protection class IP50, kensington-lock, 250 x 250 x 65 mm

Weight (including mounting plate) 2.160 kg

orientation sensor integrated orientation sensor (accelerometer) to detect the Access Points mounting position.

Power supply 12 V DC external plug-in power supply (not included) or PoE (Power-over-Ethernet) according to IEEE 802.3bt. Operation with PoE according to 802.3at with the following limitations: 2+2+2 WLAN streams at 2.4 GHz, 5 GHz, and 6 GHz; Ethernet interface ETH1 2.5 GBit/s. Operation with PoE according to 802.3af only for commissioning (no WLAN operation).



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Management and monitoring

Management LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANconfig, LL2M, external Syslog, Packet Capturing, TACACS+

Monitoring 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

fire test conforms to UL2043 (plenum rated)

Country of Origin Engineered in Germany, Made in Vietnam

*) Note The full text of the specific Declaration of Conformity is available at the following Internet address: www.lancom-systems.com/doc

Scope of delivery

Documentation Installation Guide (DE/EN); Mounting Instructions (DE/EN)

Mounting Robust low profile mounting plate, secure attachment of the device with Click-Lock

Accessories

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)

LANCOM LX-7000 Universal Mount (Bulk 5) universal mounting plate for LANCOM LX-7000 series, compatible with drill hole pattern of LANCOM LN mount and other widely used AP models, item no. 61914

LANCOM LX-7000 T-Bar Mount (Bulk 5) Mounting kit for quick and easy mounting of LANCOM LX-7000 series APs on suspended ceilings, AL profile width 22-24 mm, item no. 61915

Support

Warranty extension Free warranty extension up to 3 years (replacement service for defects)
For details, please refer to the service and support conditions at www.lancom-systems.com/support-conditions or at www.lancom.de/rma.

Security updates Up to 2 years after End of Sale of the device (but min. 3 years, see www.lancom-systems.com/product-tables), can be extended by purchasing LANcare products

Software updates Regular free updates including new features as part of the LANCOM Lifecycle Management (www.lancom-systems.com/lifecycle)



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Support

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| Information on the EU Data Act | For details on product data and data on connected services, please refer to https://www.lancom-systems.com/fileadmin/pdf/LCS/LANCOM-EU-data-act-product-data-and-data-related-services.pdf |
| Manufacturer support | For LANcommunity partners up to the End of Life of the device For end customers with LANcare Direct or LANcare Premium Support during the LANcare validity |
| LANcare 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 |
| LANcare 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 |
| LANcare 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) |
| LANcare 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) |
| LANcare 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) |
| LANcare 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

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| Lifecycle Management | After discontinuation (End of Sale), the device is subject to the LANCOM Lifecycle Management. Details can be found at: www.lancom-systems.com/lifecycle |
| Anti-backdoor policy | Products from LANCOM are free of hidden access paths (backdoors) and other undesirable features for introducing, extracting or manipulating data. The trust seal "IT Security made in Germany" (ITSMIG) and certification by the German Federal Office for Information Security (BSI) confirm the trustworthiness and the outstanding level of security. |

LANCOM Management Cloud

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| LANCOM LMC-A-1Y LMC License | LANCOM LMC-A-1Y License (1 Year), enables the management of one category A device for one year via the LANCOM Management Cloud, item no. 50100 |
| LANCOM LMC-A-3Y LMC License | LANCOM LMC-A-3Y License (3 Years), enables the management of one category A device for three years via the LANCOM Management Cloud, item no. 50101 |
| LANCOM LMC-A-5Y LMC License | LANCOM LMC-A-5Y License (5 Years), enables the management of one category A device for five years via the LANCOM Management Cloud, item no. 50102 |



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Item number(s)

| | |
|----------------|-------|
| LANCOM LX-7400 | 61933 |
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| LANCOM LX-7400 (Bulk 5) | 61934 |
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