

LANCOM LN-830U

Top Wi-Fi combined with IoT readiness



Modern wireless infrastructures are ready for enhancement with future technologies. This access point offers fast 11ac Wave 1 Wi-Fi (Wi-Fi 5) and additional IoT readiness. The integrated USB port makes it easy to integrate supported IoT modules into existing Wi-Fi infrastructures. Companies and brick-and-mortar retailers benefit from versatile applications as well as from a high-performance and extendable Wi-Fi network.

- Dual-concurrent Wi-Fi—parallel operation at 2.4 GHz and 5 GHz in IEEE 802.11ac (Wi-Fi 5) and IEEE 802.11n (Wi-Fi 4)
- USB 2.0 port for the future integration of supported IoT radio systems
- Power supply optionally by Power over Ethernet (IEEE 802.3af) or power-supply unit
- Zero-touch deployment by LANCOM WLAN controller or LANCOM Management Cloud
- Elegant LANCOM design with integrated antennas
- User-friendly and secure integration of external users through the LANCOM Public Spot Option
- Available as a single device or as a 10-piece bulk package for larger installations

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LANCOM LN-830U

Dual concurrent Wi-Fi with up to 867 Mbps

The LANCOM LN-830U features one Wi-Fi radio module for IEEE 802.11ac (Wi-Fi 5) and another for IEEE 802.11n (Wi-Fi 4). This provides fast Wi-Fi to 11n-clients in the 2.4-GHz frequency band and also the growing number of modern 11ac-enabled devices in the 5-GHz band.

IoT-ready

The aim of the IoT ("Internet of Things") is to capture information about physical "things", mostly by wireless, and to make it accessible over the network. The integrated USB port of the LANCOM LN-830U enables supported IoT wireless systems* to easily connect to the existing Wi-Fi infrastructure.

* First LANCOM IoT USB modules available as from Q3/2019

Dynamic radio-field optimization from Active Radio Control

The LANCOM LN-830U supports the Wi-Fi optimizing LANCOM Active Radio Control. This intelligent combination of innovative features in the LCOS operating system—including Adaptive Noise Immunity, Adaptive RF Optimization, Airtime Fairness and Client Management—sustainably improves Wi-Fi performance and supports administrators with professional tools for Wi-Fi management.

High-performance Wi-Fi diagnosis with Spectral Scan

The Spectral Scan function enables the LANCOM LN-830U to search its radio field for interference sources, so providing a professional tool for efficient Wi-Fi troubleshooting. By scanning the entire frequency spectrum, sources of interference in the radio field can be identified and displayed graphically.

High-performance Wi-Fi diagnosis with Spectral Scan

With numerous integrated security features such as IEEE 802.1X, this access point provides optimal security for networks. Administrators and employees alike benefit from professional security policies on the network.

Zero-touch deployment

The LANCOM LN-830U can be versatilely operated: Managed via the LANCOM Management Cloud it is integrated into a comprehensive, automated network orchestration, based on Software-defined Networking technology. It can also be operated via a LANCOM WLAN controller or be applied in stand-alone operation.

Secure integration of external users

In combination with the LANCOM Public Spot Option, the LANCOM LN-830U is ideal for operating hotspots. Users benefit from a hotspot that is secure and easy-to-use, while hotspot operators can be sure that their own network remains separate from the hotspot.

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Maximum future viability

The LANCOM LN-830U supports what is currently the fastest WLAN standard, so that customers are well prepared for future challenges. What's more, LANCOM products are designed for a service life of several years and are equipped with hardware dimensioned for the future. Even reaching back to older product generations, updates to the LANCOM Operating System—LCOS—are available several times a year, free of charge and offering major features.

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WLAN product specifications

| | |
|--|---|
| Frequency band 2.4 GHz and 5 GHz | 2400-2483.5 MHz (ISM), 5150-5350 MHz and 5470-5725 MHz (depending on country-specific restrictions) |
| Integrated Antenna Gain (per antenna (2)) | up to 3 dBi in 2.4 GHz, up to 4.5 dBi in 5 GHz |
| Data rates IEEE 802.11ac/n | 867 Mbps according to IEEE 802.11ac with MCS9 (fallback to 6,5 Mbps with MCS0). Compatible to IEEE 802.11ac/n/a, IEEE 802.11 ac/n, IEEE 802.11n/a compatibility mode or pure IEEE 802.11ac, pure IEEE 802.11n, pure IEEE 802.11a mode and data rates selectable |
| Data rates IEEE 802.11n | 300 Mbps according to IEEE 802.11n with MCS15 (fallback to 6,5 Mbps with MCS0). Compatible to IEEE 802.11a/n, IEEE 802.11g/n, IEEE 802.11b/g/n or IEEE 802.11b/g compatibility mode or pure IEEE 802.11n, pure IEEE 802.11a, IEEE 802.11g or pure IEEE 802.11b mode and data rates selectable |
| 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) and data rates selectable |
| 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) compatible to IEEE 802.11b (11, 5.5, 2, 1 Mbps, Automatic Rate Selection), IEEE 802.11b/g compatibility mode or pure IEEE 802.11g or pure IEEE 802.11b and data rates selectable |
| Range IEEE 802.11ac/n/a/g/b * | Up to 150 m (up to 30 m in buildings) |
| Output power at radio module WLAN-1, 5 GHz | Maximum transmit power may be limited below these numbers to ensure compliance with local regulatory requirements. IEEE 802.11a/h: +17 up to +18 dBm @ 6 up to 48 Mbps, +13 up to +15 dBm @ 54 Mbps, IEEE 802.11n: +17 up to +18 dBm @ (MCS0/8/16, 20 MHz), +11 up to +13 dBm @ (MCS7/15/23, 20 MHz), +16 up to +17 dBm @ (MCS0/8/16, 40 MHz), +9 up to +12 dBm @ (MCS7/15/23, 40 MHz) |
| Output power at radio module WLAN-2, 5 GHz | Maximum transmit power may be limited below these numbers to ensure compliance with local regulatory requirements. IEEE 802.11a/h: +18 dBm @ 6 up to 48 MBit/s and +16 dBm @ 54 MBit/s IEEE 802.11ac: +16 up to +18 dBm @ (MCS0-7, 20/40/80 MHz), +14 dBm @ (MCS8, 20/40/80 MHz), +14 dBm @ (MCS9, 40/80 MHz) |
| Output power at radio module WLAN-1, 2.4 GHz | Maximum transmit power may be limited below these numbers to ensure compliance with local regulatory requirements. IEEE 802.11b: +22 dBm @ 1 and 2 Mbps, +22 dBm @ 5,5 and 11 Mbps, IEEE 802.11g: +22 dBm @ 6 up to 36 Mbps, +20 dBm @ 48 Mbps, +18 dBm @ 54 Mbps, IEEE 802.11n: +22 dBm @ (MCS0/8/16, 20 MHz), +16 dBm @ (MCS7/15/23, 20 MHz), +21 dBm @ (MCS0/8/16, 40 MHz), +15 dBm @ (MCS7/15/23, 40 MHz) |
| Minimum transmission power | Transmission power reduction in software in 1 dB steps to min. 0.5 dBm |
| Receiver sensitivity WLAN-1, 5 GHz | IEEE 802.11a/h: -98 dBm @ 6 Mbps, -81 dBm @ 54 Mbps, IEEE 802.11n: -94 dBm @ (MCS0, 20 MHz), -76dBm @ (MCS 7, 20 MHz), -92 dBm @ (MCS0, 40 MHz), -72 dBm @ (MCS7, 40 MHz) |
| Receiver sensitivity WLAN-2, 5 GHz | IEEE 802.11a/h: -95 dBm @ 6 MBit/s, -76 dBm @ 54MBit/s, IEEE 802.11ac: -94 dBm @ MCS0 20 MHz, -76 dBm @ MCS7 20 MHz, -72 dBm @ MCS8 20 MHz, -92 dBm @ MCS0 40 MHz, -76 dBm @ MCS7 40 MHz, -71 dBm @ MCS8 40 MHz, -70 dBm @ MCS9 40 MHz, -90 dBm @ MCS0 80 MHz, -72 dBm @ MCS7 80 MHz, -68 dBm @ MCS8 80 MHz, -67 dBm @ MCS9 80 MHz |
| Receiver sensitivity WLAN-1, 2.4 GHz | IEEE 802.11b: -97 dBm @ 1 MBit/s, -93 dBm @ 11 MBit/s, IEEE 802.11g: -95dBm @ 6 MBit/s, -81dBm @ 54 MBit/s IEEE 802.11n: -94 dBm @ 6,5MBit/s (MCS0, 20 MHz), -77 dBm @ 65 MBit/s (MCS7, 20 MHz), -91 dBm @ 15 MBit/s (MCS0, 40 MHz), -74 dBm @ 150 MBit/s (MCS7, 40 MHz) |

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WLAN product specifications

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|-------------------------|--|
| Radio channels 5 GHz | Up to 26 non-overlapping channels (available channels and further obligations such as automatic DFS dynamic channel selection depending on national regulations) |
| Radio channels 2.4 GHz | Up to 13 channels, max. 3 non-overlapping (depending on country-specific restrictions) |
| Multi-SSID | Up to 31 (Simultaneous use of up to 16 independent WLAN networks at WLAN interface 1 and up to 15 independent WLAN networks at WLAN interface 2; time-controlled activation and deactivation of WLAN networks) |
| Concurrent WLAN clients | Up to 256 clients (recommended) ** |
| Others | Wireless Quality Indicators (WQI), Hotspot 2.0 |
| *) Note | The effective distances and transmission rates that can be achieved are depending of the onsite RF conditions |
| **) Note | The 11ac WLAN module supports max. 128 clients, this specification refers to the combination with the 11n radio module. |

Supported WLAN standards

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|----------------|---|
| IEEE standards | IEEE 802.11ac (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.11a, IEEE 802.11g, IEEE 802.11b, IEEE 802.11i, IEEE 802.1X, IEEE 802.11u, IEEE 802.11r (Fast Roaming), IEEE 802.11w (Protected Management Frames), WME and U-APSD/WMM Power Save as defined in IEEE 802.11e, IEEE 802.11h, IEEE 802.11d |
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Standard IEEE 802.11ac (Wi-Fi 5)

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| Supported features | 2x2 MIMO, 80 MHz channels, QAM-256 |
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Standard IEEE 802.11n (Wi-Fi 4)

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| Supported features | 2x2 MIMO, 40 MHz channel, 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 |
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WLAN operating modes

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| Modes | WLAN access point (standalone, WLC or LANCOM Management Cloud managed), WLAN bridge (P2P or P2MP) (standalone or AutoWDS*), (standalone, WLC or LANCOM Management Cloud managed), WLAN client mode, transparent WLAN client mode |
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Security

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| Encryption options | WPA3-Personal, IEEE 802.1X (WPA3-Enterprise, WPA2-Enterprise), IEEE 802.11i (WPA2-Personal), Wi-Fi Certified™ WPA2™, WPA, WEP, IEEE 802.11w (Protected Management Frames), LEPS-MAC (LANCOM Enhanced Passphrase Security MAC), LEPS-U (LANCOM Enhanced Passphrase Security User) |
| Encryption | AES-CCMP AES-GCMP, TKIP, RC4 (only used by WEP) |
| EAP types (authenticator) | EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-FAST |

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Security

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|-------------------|---|
| RADIUS/EAP-server | User administration MAC-based, rate limiting, passphrases, VLAN user based, authentication of IEEE 802.1X clients via EAP-TLS, EAP-TTLS, EAP-MD5, EAP-GTC, PEAP, MSCHAP, MSCHAPv2, Dynamic Peer Discovery |
| Others | WLAN protocol filters, IP-redirection of any packet received over the WLAN interface, IEEE 802.1X supplicant, background scanning, client detection ("rogue WLAN client detection"), Wireless Intrusion Detection System (WIDS), RADIUS CoA (Change of Authorization) |

LANCOM Active Radio Control

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| Client Management | Steering of WLAN clients to the ideal access point using 802.11k and 802.11v |
| Band Steering | Steering of 5GHz clients to the corresponding high-performance frequency band |
| Managed RF Optimization* | Selection of optimal WLAN channels by the administrator |
| Adaptive Noise Immunity | Better WLAN throughput due to immunity against interferences |
| Spectral Scan | Monitoring your WLAN for sources of interference |
| Adaptive RF Optimization | Dynamic selection of the optimal WLAN channel |
| Airtime Fairness | Improved utilization of the WLAN bandwidth |
| Adaptive Transmission Power | Automatic adjustment of the transmission power for Wi - Fi backup scenarios |
| *) Note | Only in installations with WLAN controller |

Roaming

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| Roaming | IAPP (Inter Access Point Protocol), IEEE 802.11r (Fast Roaming), OKC (Opportunistic Key Caching), Fast Client Roaming (only in operating mode client modus) |
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Layer 2 features

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|--------------------|---|
| VLAN | 4.096 IDs based on IEEE 802.1q, dynamic assignment |
| Quality of Service | WME based on IEEE 802.11e, Wi-Fi Certified™ WMM® |
| Rate limiting | SSID based, WLAN client based |
| Multicast | IGMP-Snooping, MLD-Snooping, Multicast-to-Unicast-conversion on WLAN interfaces |
| Protocols | Ethernet over GRE-Tunnel (EoGRE), L2TPv3, ARP-Lookup, LLDP, DHCP option 82, IPv6-Router-Advertisement-Snooping, DHCPv6-Snooping, LDRA (Lightweight DHCPv6 Relay Agent), Spanning Tree, Rapid Spanning Tree, ARP, Proxy ARP, BOOTP, DHCP, LACP |

Layer 3 features

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| Firewall | Stateful inspection firewall including paket filtering, extended port forwarding, N:N IP address mapping, paket tagging, support for DNS targets, user-defined rules and notifications |
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Layer 3 features

| | |
|---------------------------------|---|
| Quality of Service | Traffic shaping, bandwidth reservation, DiffServ/TOS, packetsize control, layer-2-in-layer-3 tagging |
| Security | Intrusion Prevention, IP spoofing, access control lists, Denial of Service protection, detailed settings for handling reassembly, session-recovery, PING, stealth mode and AUTH port, URL blocker, password protection, programmable reset button |
| PPP authentication mechanisms | PAP, CHAP, MS-CHAP, and MS-CHAPv2 |
| High availability / redundancy | VRRP (Virtual Router Redundancy Protocol), analog/GSM modem backup |
| Router | IPv4-, IPv6-, NetBIOS/IP multiprotokoll router, IPv4/IPv6 dual stack |
| Router virtualization | ARF (Advanced Routing and Forwarding) up to separate processing of 16 contexts |
| IPv4 services | HTTP and HTTPS server for configuration by web interface, DNS client, DNS server, DNS relay, DNS proxy, dynamic DNS client, DHCP client, DHCP relay and DHCP server including autodetection, NetBIOS/IP proxy, NTP client, SNTP server, policy-based routing, Bonjour-Proxy, RADIUS |
| IPv6 services | HTTP and HTTPS server for configuration by web interface, DHCPv6 client, DHCPv6 server, DHCPv6 relay, DNS client, DNS server, dynamic DNS client, NTP client, SNTP server, Bonjour-Proxy, RADIUS |
| Dynamic routing protocols | RIPv2 |
| IPv4 protocols | DNS, HTTP, HTTPS, ICMP, NTP/SNTP, NetBIOS, PPPoE (server), RADIUS, RADSEC (secure RADIUS), RTP, SNMPv1,v2c,v3, TFTP, TACACS+, IGMPv3 |
| IPv6 protocols | NDP, stateless address autoconfiguration (SLAAC), stateful address autoconfiguration (DHCPv6), router advertisements, ICMPv6, DHCPv6, DNS, HTTP, HTTPS, PPPoE, RADIUS, SMTP, NTP, Syslog, SNMPv1,v2c,v3, MLDv2, NPTv6 (NAT66) |
| WAN operating mode | VDSL, ADSL1, ADSL2 or ADSL2+ additional with external DSL modem at an ETH port |
| WAN protocols | PPPoE, Multi-PPPoE, ML-PPP, GRE, EoGRE, PPTP (PAC or PNS), L2TPv2 (LAC or LNS), L2TPv3 with Ethernet-Pseudowire, IPoE (using DHCP or no DHCP), RIP-1, RIP-2, VLAN, IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IP(v6)oE (autokonfiguration, DHCPv6 or static) |
| Tunneling protocols (IPv4/IPv6) | 6to4, 6in4, 6rd (static and over DHCP), Dual Stack Lite (IPv4-in-IPv6-Tunnel), 464XLAT |

Interfaces

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|------------------------------------|---|
| Ethernet ports | 2 x 10/100/1000BASE-T autosensing (RJ-45), IEEE 802.3az, PoE (Power over Ethernet) at ETH1 |
| USB | USB 2.0 hi-speed host port |
| Serial interface | Serial configuration interface / COM port (8 pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection of analog/GPRS modems. Supports internal COM port server and allows for transparent asynchronous transmission of serial data via TCP |
| Internal antennas per radio module | Radio module 1 and 2 use two internal antennas |

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Supported IoT USB modules

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|-----------------|----------------------------|
| IoT USB modules | LANCOM Wireless ePaper USB |
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Hardware

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|-------------------------|---|
| Power supply | 12 V DC, external power adapter (230 V) with bayonet cap. PoE (Power over Ethernet), compliant with IEEE 802.3af |
| Environment | Temperature range 0° to +40°C; humidity up to 95%; non-condensing |
| Power consumption (max) | Approx. 11 W via 12 V / 2 A power adapter (value refers to the power of the access point without power adapter), about 12 W via PoE, in each case max. +3 W when operating the USB port |
| Housing | Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; 205 x 42 x 205 mm (W x H x D) |

Management and monitoring

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|---------------------------|---|
| Management | LANCOM Management Cloud, LANconfig, WEBconfig, WLAN controller, LANCOM Layer 2 management (emergency management) |
| Management functions | Alternative boot configuration, voluntary automatic updates for LCMS and LCOS, individual access and function rights up to 16 administrators, RADIUS and RADSEC user management, remote access (WAN or (W)LAN, access rights (read/write) adjustable separately), SSL, SSH, HTTPS, Telnet, TFTP, SNMP, HTTP, access rights via TACACS+, scripting, timed control of all parameters and actions through cron job |
| FirmSafe | Two stored firmware versions, incl. test mode for firmware updates |
| automatic firmware update | configurable automatic checking and installation of firmware updates |
| Monitoring | LANCOM Management Cloud, LANmonitor, WLANmonitor |
| Monitoring functions | Device SYSLOG, SNMPv1,v2c,v3 incl. SNMP-TRAPS, extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, internal logging buffer for firewall events |
| Monitoring statistics | Extensive Ethernet, IP and DNS statistics; SYSLOG error counter, accounting information exportable via LANmonitor and SYSLOG, Layer 7 Application Detection including application-centric tracking of traffic volume |
| IPerf | IPerf is a tool for measurements of the bandwidth on IP networks (integrated client and server) |
| SLA-Monitor (ICMP) | Performance monitoring of connections |
| SD-WLAN | SD-WLAN – automatic WLAN configuration via the LANCOM Management Cloud |
| SD-LAN | SD-LAN – automatic LAN configuration via the LANCOM Management Cloud |

Declarations of conformity*

| | |
|------------|---------------------------------------|
| CE | EN 62368, EN 301 489-1, EN 301 489-17 |
| 5 GHz WLAN | EN 301 893 |

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Declarations of conformity*

| | |
|-------------------|---|
| 2.4 GHz WLAN | EN 300 328 |
| IPv6 | IPv6 Ready Gold |
| Country of Origin | Made in Germany |
| *) Note | You will find all declarations of conformity in the products section of our website at www.lancom-systems.com |

Scope of delivery

| | |
|-------------------|--|
| Manual | Installation Guide (DE/EN/FR/ES/IT/PT/NL) |
| Cable | 1 Ethernet cable, 3 m |
| Power supply unit | External power adapter, NEST 12 V / 2 A DC/S, barrel connector 2.1 / 5.5 mm bayonet, LANCOM item no. 111760 (not for WW devices) |

Support

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|----------------------|--|
| Warranty | 3 years For details, please refer to the General Warranty Conditions at: www.lancom-systems.com/warranty-conditions |
| Software updates | Regular free updates as part of the LANCOM Software Lifecycle Managements (www.lancom-systems.com/lifecycle) |
| Manufacturer support | Free technical manufacturer support as part of the LANCOM Software Lifecycle Management (www.lancom-systems.com/lifecycle). |

Software

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|-------------------------------|--|
| Software Lifecycle Management | After discontinuation, the device is subject to the LANCOM Software 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. |

Options

| | |
|-----------------------------------|---|
| LANCOM Warranty Basic Option S | Option to extend the manufacturer's warranty from 3 to 5 years, item no. 10710 |
| LANCOM Warranty Advanced Option S | Option to extend the manufacturer's warranty from 3 to 5 years and replacement of a defective device, item no. 10715 |
| LANCOM Public Spot | Hotspot option for LANCOM products, versatile access (via voucher, e-mail, SMS), including a comfortable setup wizard, secure separation of guest access and internal network, item no. 60642 |

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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 |
| LANCOM LMC-A-10Y LMC License | LANCOM LMC-A-10Y License (10 Years), enables the management of one category A device for ten years via the LANCOM Management Cloud, item no. 50132 |

Accessories

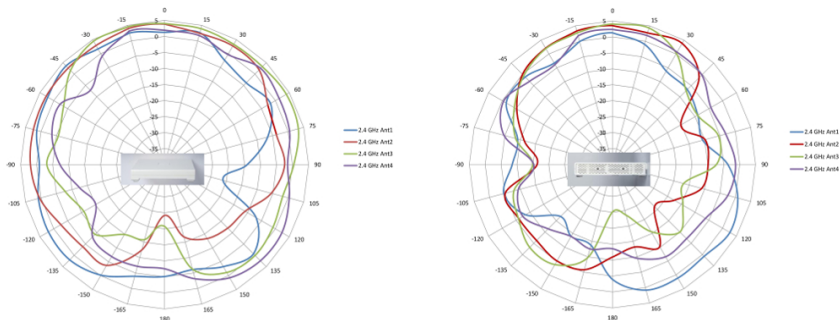
| | |
|--------------------------------------|---|
| LANCOM WLAN controllers | LANCOM WLC-4006+, item no. 62035 (EU), item no. 62036 (UK) and item no. 62037 (US), LANCOM WLC-1000, item no. 61783 (EU), LANCOM WLC Basic Option for Routers, item no. 61639 |
| LANCOM Wall Mount LN | Robust mounting plate for simple, theft-proof mounting of LANCOM devices with LN housing, Item no. 61342 |
| LANCOM WLAN PSU (EU, white, Bulk 10) | 10x white LANCOM WLAN PSU 230V/2A power adapter, item no. 61814 |
| LANCOM Serial Adapter Kit | For the connection of V.24 modems with AT command set and serial interface for the connection to the LANCOM COM interface, incl. serial cable and connection plug, item no. 61500 |
| Power over Ethernet Injector | 1-port PoE injector with Gigabit support, integrated power supply, compatible with the standard IEEE 802.3af/at, item no. 61738 (EU) and 61739 (UK) |

Item number(s)

| | |
|--------------------------|-------|
| LANCOM LN-830U (EU) | 61797 |
| LANCOM LN-830U (WW) | 61798 |
| LANCOM LN-830U (Bulk 10) | 61799 |

Antenna Gain

antenna pattern, 2.4 GHz

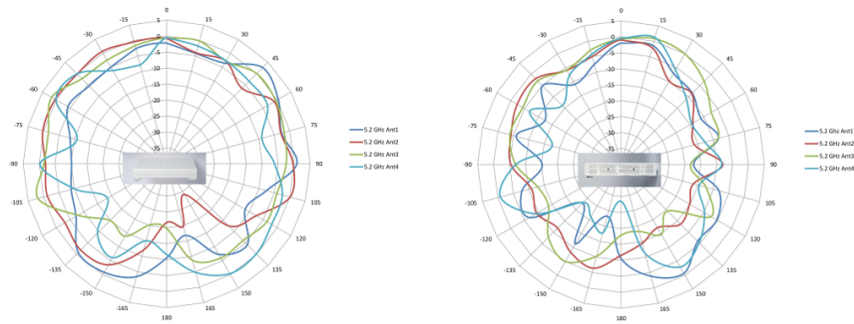


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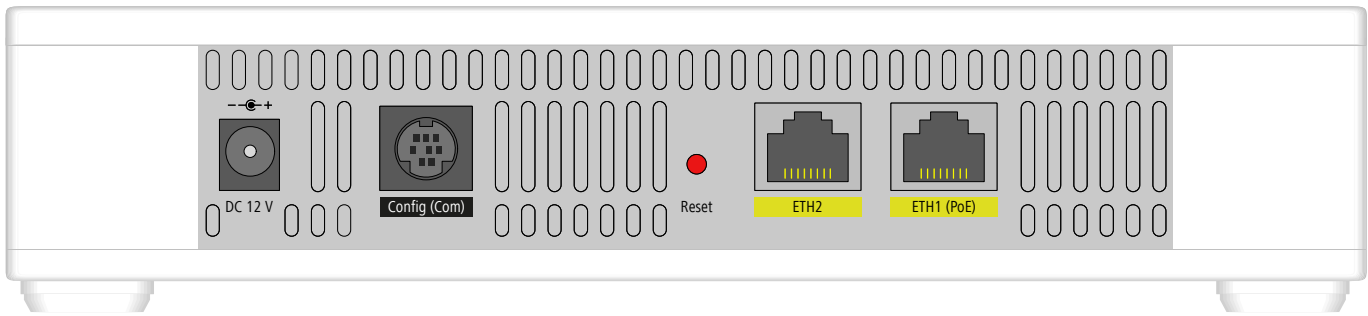
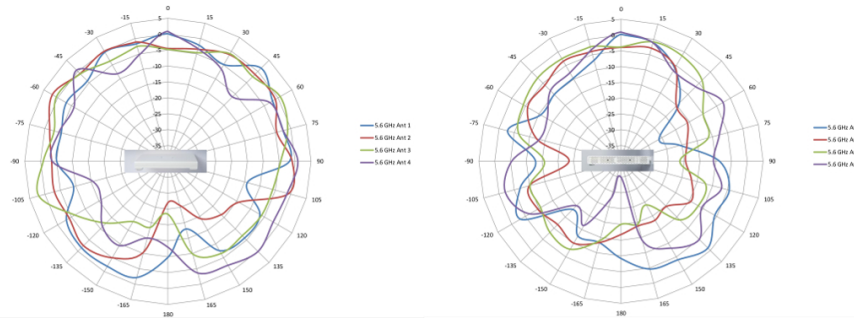
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Antenna Gain

antenna pattern, 5.2 GHz



antenna pattern, 5.6 GHz



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