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# LANCOM LN-830E Wireless

## Dual-radio enterprise-class 11ac WLAN access point with up to 867 Mbps, Wireless ePaper technology, and iBeacon support in elegant design

The LANCOM LN-830E Wireless is a powerful 11ac WLAN enterprise-class access point. It provides fast WLAN to 11n clients in the 2.4-GHz frequency band and also to the increasing number of modern 11ac-enabled devices in the 5-GHz band. In addition to that, the access point supports the wireless update of radio-controlled, battery-powered ePaper displays and iBeacon technology in an interference-free, parallel operation. Thanks to its puristic and elegant design it is ideal for an inconspicuous application in modern environments.

- → Dual concurrent WLAN – parallel operation at 2.4 and 5 GHz with up to 867 Mbps with IEEE 802.11ac
- → Integrated radio module for updating LANCOM Wireless ePaper Displays
- → Integrated iBeacon technology
- → Dynamic WLAN optimization thanks to LANCOM Active Radio Control (ARC)
- → Operation via LANCOM Management Cloud, WLAN controller or stand-alone
- → Easy and secure integration of external users with the Public Spot Option
- → Elegant LANCOM design with integrated antennas

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# LANCOM LN-830E Wireless

**Dual concurrent Wi-Fi with up to 867 Mbps**

The LANCOM LN-830E Wireless offers one wireless radio module for 11ac WLAN and another for 11n WLAN. This provides fast WLAN to 11n clients in the 2.4-GHz frequency band and also the increasing number of modern 11ac-enabled devices in the 5-GHz band.

**Update of LANCOM Wireless ePaper Displays**

Besides providing two WLAN radio modules, the LANCOM LN-830E Wireless also offers one radio module for the update of LANCOM Wireless ePaper Displays. Thanks to the intelligent combination of different radio technologies in one access point, the interference-free and parallel operation is guaranteed.

**Integrated iBeacon technology**

The iBeacon, integrated in the LANCOM LN-830E Wireless, continously sends signals via the radio standard Bluetooth Low Energy (version 4.0). It is extremely well-suited for near-field communication and has the advantage that its power consumption is significantly lower compared to classic Bluetooth - an innovative method for various push marketing actions.

**Active Radio Control for dynamic radio-field optimization**

The LANCOM LN-830E Wireless supports the WLAN optimization concept LANCOM Active Radio Control. This intelligent combination of innovative features included with the LCOS operating system – such as Band Steering, Adaptive Noise Immunity, Adaptive RF Optimization, Airtime Fariness and Client Steering – sustainably increases WLAN performance and supports administrators with professional tools for WLAN management.

**Zero-touch deployment**

The LANCOM LN-830E Wireless 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-830E Wireless is ideal for operating hotspots. Users benefits 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.

**Elegant LANCOM design**

The white LANCOM LN-830E Wireless with integrated antennas stands out with its puristic elegance. Thanks to the modern design it is ideal for an inconspicuous application in environments of every industry sector and seamlessly fits into every environment.

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**Maximum future viability**

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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# LANCOM LN-830E Wireless

| 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) |
| 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) |
| 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) |

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| | |
|---|---|
| **WLAN product specifications** | |
| 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** | |
| 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 |
| **Standard IEEE 802.11ac (Wi-Fi 5)** | |
| Supported features | 2x2 MIMO, 80 MHz channels, QAM-256 |
| **Standard IEEE 802.11n (Wi-Fi 4)** | |
| 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 |
| **WLAN operating modes** | |
| 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 |
| **Security** | |
| 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 |
| 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 LN-830E Wireless

| LANCOM Active Radio Control | |
|---|---|
| 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 | |
|---|---|
| Roaming | IAPP (Inter Access Point Protocol), IEEE 802.11r (Fast Roaming), OKC (Opportunistic Key Caching), Fast Client Roaming (only in operating mode client modus) |

| Wireless ePaper Displays | |
|---|---|
| Support of LANCOM Wireless ePaper Displays | The device is equipped with a radio module for the update of LANCOM Wireless ePaper Displays in the 2.4 GHz frequency band. |

| iBeacon | |
|---|---|
| Support of iBeacon technology | The device is equipped with a BLE radio module and can thus transmit a configurable iBeacon. The UUID as well as the major and minor ID are configurable. On top of that, all three radiated powers are supported (near, immediate, far). |

| Layer 2 features | |
|---|---|
| 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 |

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| Layer 3 features | |
|---|---|
| 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 |
| 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 | |
|---|---|
| Ethernet ports | 2 x 10/100/1000BASE-T autosensing (RJ-45), IEEE 802.3az, PoE (Power over Ethernet) at ETH1 |
| 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 | Two internal antennas can be used to control Wireless ePaper Displays and iBeacon as well as two internal antennas for each WLAN Radio module. |

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# LANCOM LN-830E Wireless

| Hardware | |
|---|---|
| Environment | Temperature range 0° to +40°C for wall mounting (vertical mounting position) and 0° to 35°C for ceiling mounting (horizontal mounting position); humidity up to 95%; non-condensing |
| Power consumption (max) | Approx. 11 watt with power supply adapter (total power consumption of access point and power supply adapter), approx. 12 watt via PoE |
| 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 | |
|---|---|
| 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 seperately), 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 60950-1, EN 301 489-1, EN 301 489-17 |
| 5 GHz WLAN | EN 301 893 |
| 2.4 GHz WLAN | EN 300 328 |
| IPv6 | IPv6 Ready Gold |
| Country of Origin | Made in Germany |

# LANCOM LN-830E Wireless

| | |
|---|---|
| **Declarations of conformity*** | |
| *) 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 (230 V), NEST 12 V/1.5 A DC/S, coaxial power connector 2.1/5.5 mm, temperature range from -5 to +45° C, LANCOM item no. 111140 (EU) (not included in bulk delivery) |
| **Support** | |
| Warranty | 3 years<br>For details, please refer to the General Warranty Conditions at: www.lancom-systems.com/warranty-conditions |
| Software updates | Regular free updates (LCOS operating system and LANtools) via Internet |
| Software updates | Regular free updates as part of the LANCOM Lifecycle Managements (www.lancom-systems.com/lifecycle) |
| Manufacturer support | Technical manufacturer support as part of a support contract (LANcommunity partner, LANcare Direct, or LANcare Premium Support) |
| LANcare Basic S | Security updates and manufacturer support until EOL status (min. 5 years, support contract required: LANcommunity partner, LANcare Direct, or LANcare Premium Support), 5 years replacement service with shipment of the device within 5 days after arrival of the faulty device (8/5/5Days), 10720 |
| LANcare Advanced S | Security updates and manufacturer support until EOL status (min. 5 years, support contract required: LANcommunity partner, LANcare Direct, or LANcare Premium Support), 5 years NBD advance replacement with delivery of the device on the next 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) |

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# LANCOM LN-830E Wireless

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|---|---|
| **Software** | |
| 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. |
| **Options** | |
| 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 |
| **LANCOM Management Cloud** | |
| 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 |
| **Accessories** | |
| LANCOM Wireless ePaper Displays | → 2,7" LANCOM Wireless ePaper Display, item no. 62213 (bulk 5) and item no. 62219 (bulk 5)<br>→ 4,4" LANCOM Wireless ePaper Display, item no. 62211 and item no. 62214 (bulk 5)<br>→ 4,2" LANCOM Wireless ePaper Display, item no. 62218, item no. 62220 (bulk 5), item no. 62230 and item no. 62233 (bulk 5)<br>→ 7,4" LANCOM Wireless ePaper Display, item no. 62212, item no. 62215(bulk 5), item no. 62217, item no. 62221(bulk 5), item no. 62231 and item no. 62234(bulk 5)<br>→ 12,2" LANCOM Wireless ePaper Display, item no. 62226 |
| LANCOM WLAN controllers | LANCOM WLC-30, Art.-Nr. 61789 (EU), LANCOM WLC-1000, Art.-Nr. 61783 (EU), LANCOM WLC Basic Option for Routers, Art.-Nr. 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 to 12V/2A DC 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 |
| LANCOM PoE++ Injector (EU) | 1-port PoE injector with multi-Gigabit support, integrated power supply, compatible with the standard IEEE 802.3af/at/bt (up to 65W), item no. 61779 (EU) |

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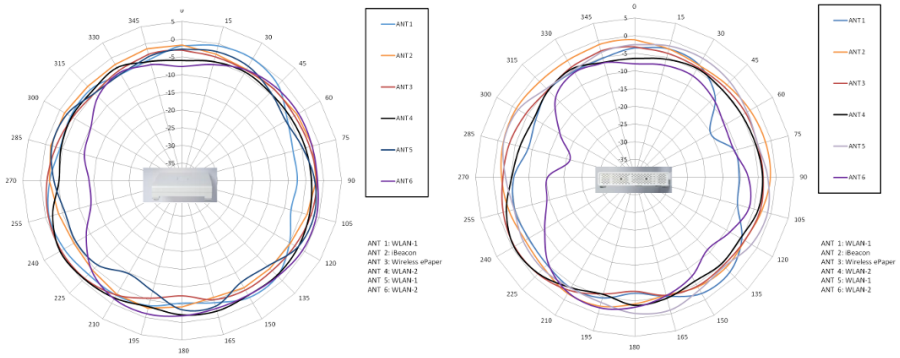
# LANCOM LN-830E Wireless

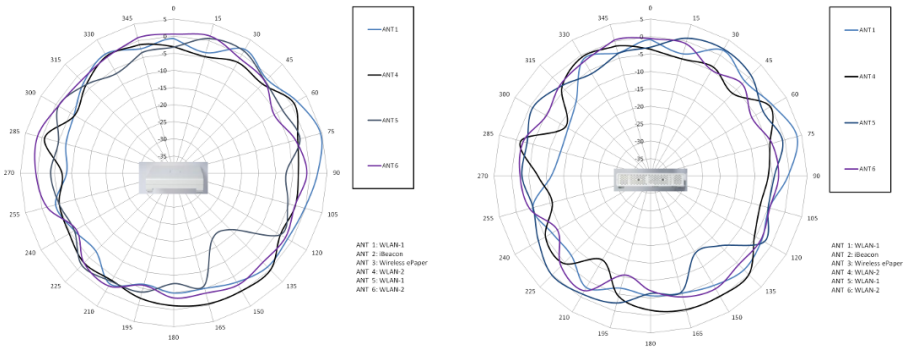
| Item number(s) | |
|---|---|
| LANCOM LN-830E Wireless (EU/UK) | 61747 (EU), 61748 (UK) |

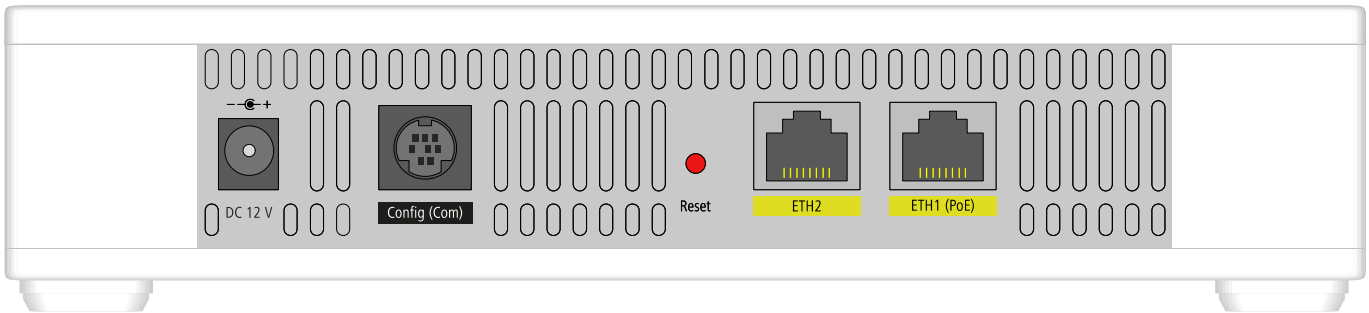
## Antenna Gain

antenna pattern, 2.4 GHz



antenna pattern, 5.2 GHz



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