

LANCOM LN-862

Dual-radio enterprise-class 11ac Wave 2 Wi-Fi access point with up to 867 Mbps – 100% Cloud-ready



The LANCOM LN-862 is a high-performance 11ac Wi-Fi Wave 2 enterprise access point. Based on the Wi-Fi standard IEEE 802.11ac Wave 2, this device significantly increases the efficiency of any wireless network. Featuring Multi-User MIMO, it allows all of the available streams to be used by several clients at the same time. The clients also benefit from beamforming for a better signal. The LANCOM LN-862 provides fast Wi-Fi to 11n-clients in the 2.4-GHz frequency band as well as the growing number of 11ac-enabled devices in the 5-GHz band. On top of that, the access point can be versatilely operated: it can be orchestrated via the LANCOM Management Cloud, centrally managed by a WLAN controller or operated as a stand-alone device.

- → Dual concurrent Wi-Fi parallel operation at 2.4 and 5 GHz with up to 867 Mbps with IEEE 802.11ac Wave 2 and 300 Mbps with IEEE 802.11n
- → 2x2 Multi-User MIMO for simultaneous beam-steering for multiple clients
- → Beamforming steers the signal towards the Wi-Fi clients
- → Supports 160-MHz channel width
- → Dynamic WLAN optimization thanks to LANCOM Active Radio Control (ARC)
- → Professional security features such as IEEE 802.1X
- → SD-WLAN automatic WLAN configuration via the LANCOM Management Cloud
- → Integrated layer-7 application detection
- → Elegant LANCOM design with external antennas



LANCOM LN-862

Dual concurrent Wi-Fi with up to 867 Mbps

The LANCOM LN-862 features two Wi-Fi radio modules, one offering IEEE 802.11ac Wave 2 and the other offering IEEE 802.11n. 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.

2x2 Multi-User MIMO

Multi-User MIMO (MU-MIMO for short) simultaneously distributes all of the available spatial streams of the LANCOM LN-862 between several different Wave 2 clients, rather than one after the other as was formerly the case. The available bandwidth is used more efficiently and delays in the wireless network are substantially reduced.

Beamforming

The LANCOM LN-862 uses beamforming to actively steer the signal to the clients and minimize interfering radio signals for other clients. In combination with MU-MIMO, the clients receive dedicated spatial streams with a minimum of interference, which positively influences the data rates for all of the clients.

160-MHz channel width

Increasing the channel width from 80 to 160 MHz doubles the performance for Wave 2 clients. By optimizing the use of the radio spectrum, a client can be supplied with a data rate of up to 867 Mbps.

Active Radio Control for dynamic radio-field optimization

The LANCOM LN-862 supports the WLAN optimization feature 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 Fairness and Client Steering—sustainably increases WLAN performance and supports administrators with professional tools for WLAN management.

LANCOM security for wireless networks

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

Operation via LANCOM Management Cloud, WLAN controller or stand-alone

The LANCOM LN-862 can be versatilely operated: Managed via the LANCOM Management Cloud it is integrated into a comprehensive, automized 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.



LANCOM LN-862

Layer-7 application detection

Knowing what the bandwidth in your network is actually being used for can be crucial in any industry. Layer-7 application detection gives you a completely transparent overview. This means that the user-friendly LANCOM Management Cloud delivers clear and professional insight into exactly which applications (such as YouTube, Netflix, etc.) are operating anywhere on the network—true added value for all-round network monitoring.

Elegant LANCOM design with external antennas

The white LANCOM LN-862 with external antennas has a fascinating, puristic elegance. Its modern design is ideal for operation in any industry as it blends seamlessly into any environment. It also has connectors for external antennas for maximum flexibility and tailor-made Wi-Fi coverage, whatever your needs.



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	IEEE 802.11a/h: +18 dBm @ 6 and +15 dBm @ 54 MBit/s, IEEE 802.11ac: 18 dBm @ (MCS0/1, 20 MHz), 17 dBm @ (MCS2-3, 20 MHz), 16 dBm @ (MCS4/5, 20 MHz), 15 dBm @ (MCS6, 20 MHz), 14 dBm @ (MCS7, 20 MHz), 12 dBm @ (MCS8, 20 MHz), 11 dBm @ (MCS9, 20 MHz), 18 dBm @ (MCS0/1, 40 MHz), 17 dBm @ (MCS2/3, 40 MHz), 16 dBm @ (MCS4/5, 40 MHz), 15 dBm @ (MCS6, 40 MHz), 14 dBm @ (MCS7, 40 MHz), 12 dBm @ (MCS8, 40 MHz), 11 dBm @ (MCS9, 40 MHz), 18 dBm @ (MCS0/1, 80 MHz), 17 dBm @ (MCS2/3, 80 MHz), 16 dBm @ (MCS4/5, 80 MHz), 15 dBm @ (MCS6, 80 MHz), 14 dBm @ (MCS7, 80 MHz), 12 dBm @ (MCS8, 80 MHz), 11 dBm @ (MCS9, 80 MHz), 18 dBm @ (MCS0/1, 160 MHz), 17 dBm @ (MCS2/3, 160 MHz), 16 dBm @ (MCS9, 160 MHz), 15 dBm @ (MCS6, 160 MHz), 14 dBm @ (MCS7, 160 MHz), 12 dBm @ (MCS8, 160 MHz), 11 dBm @ (MCS9, 160 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)
Max. allowed radiation power (EIRP), 5 GHz	IEEE 802.11a/h: Up to 30 dBm / 1000 mW EIRP (depending on national regulations on channel usage and subject to further obligations such as TPC and DFS)
Max. allowed radiation power (EIRP), 2.4 GHz	IEEE 802.11b/g: Up to 20 dBm / 100 mW EIRP (transmission power control according to TPC)
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 @ (MCS 7, 20 MHz)



Receiver sensitivity WLAN-2, 5 GHz IEEE 802.11a/h: -87 dBm @ 6 MBit/s, -71 dBm @ 54MBit/s, IEEE 80 MCS0 20MHz, -86 dBm @ MCS 20 MHz, -86 dBm @ MCS 40 MHz, -85 dBm @ MCS 20 MHz, -86 dBm @ MCS 40 MHz, -85 dBm @ MCS0 40 MHz, -81 dBm @ MCS0 40 MHz, -81 dBm @ MCS0 40 MHz, -81 dBm @ MCS0 40 MHz, -87 dBm @ 11 MBit/s, -93 dBm @ 11 MBit/s, IEEE 802.11b: -97 dBm @ 1 MBit/s, -93 dBm @ 11 MBit/s, IEEE 802.11b: -94 dBm @ 6,5MBit/s (MCS0, 20 MHz), -77 dBm @ (MCS0, 40 MHz), -74 dBm @ (55 MBit/s (MCS0, 20 MHz), -77 dBm @ (MCS0, 40 MHz), -74 dBm @ 150 MBit/s (MCS7, 40 MHz) Radio channels 5 GHz Up to 26 non-overlapping channels (available channels and furthe channel selection depending on national regulations) Radio channels 2.4 GHz Up to 31 (Simultaneous use of up to 16 independent WLAN network WLAN networks at WLAN interface 2; time-controlled activation a WLAN networks at WLAN interface 2; time-controlled activation a Wireless Quality Indicators (WQI), Hotspot 2.0 *) Note The effective distances and transmission rates that can be achiev Supported WLAN standards IEEE 802.11ac Wave 2 (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.11, IEEE 802.11c (Fast Roaming), IEEE 802.11k, IEEF rames), WME and U-APSD/WMM Power Save as defined in IEEE Standard IEEE 802.11ac (Wi-Fi 5) Supported features 2x2 MIMO, 80 MHz/160 MHz channels, MU-MIMO, QAM-256 Standard IEEE 802.11n (Wi-Fi 4) Supported features 2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Combining), Short Guard Interval WLAN operating modes Modes WLAN access point (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone)	
IEEE 802.11n: -94 dBm @ 6,5MBit/s (MCSO, 20 MHz), -77 dBm @ (MCSO, 40 MHz), -77 dBm @ (MCSO, 40 MHz), -74 dBm @ 150 MBit/s (MCS7, 40 MHz) Radio channels 5 GHz Up to 26 non-overlapping channels (available channels and furthe channel selection depending on national regulations) Radio channels 2.4 GHz Up to 13 channels, max. 3 non-overlapping (depending on country) Multi-SSID Up to 31 (Simultaneous use of up to 16 independent WLAN network at WLAN interface 2; time-controlled activation a Concurrent WLAN clients Up to 512 clients (recommended) Others Wireless Quality Indicators (WQI), Hotspot 2.0 *) Note The effective distances and transmission rates that can be achiev Supported WLAN standards IEEE 802.11ac Wave 2 (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.1802.11x, IEEE 802.11x, IEEE 802.11x	CS8 20 MHz, -85 dBm @ MCS0 40 MHz(VHT), -67
channel selection depending on national regulations) Radio channels 2.4 GHz Up to 13 channels, max. 3 non-overlapping (depending on country Multi-SSID Up to 31 (Simultaneous use of up to 16 independent WLAN network WLAN networks at WLAN interface 2; time-controlled activation a Concurrent WLAN clients Up to 512 clients (recommended) Others Wireless Quality Indicators (WQI), Hotspot 2.0 *) Note The effective distances and transmission rates that can be achiev Supported WLAN standards IEEE 802.11ac Wave 2 (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.18 802.11x, IEEE 802.11x,	- · · · · · · · · · · · · · · · · · · ·
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WLAN networks at WLAN interface 2; time-controlled activation a Concurrent WLAN clients Up to 512 clients (recommended) Others Wireless Quality Indicators (WQI), Hotspot 2.0 *) Note The effective distances and transmission rates that can be achiev Supported WLAN standards IEEE 802.11ac Wave 2 (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.1 802.1X, IEEE 802.11r (Fast Roaming), IEEE 802.11k, IEE Frames), WME and U-APSD/WMM Power Save as defined in IEEE Standard IEEE 802.11ac (Wi-Fi 5) Supported features 2x2 MIMO, 80 MHz/160 MHz channels, MU-MIMO, QAM-256 Standard IEEE 802.11n (Wi-Fi 4) Supported features 2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Combining), Short Guard Interval WLAN operating modes Modes WLAN access point (standalone, WLC or LANCOM Management Costandalone or AutoWDS*), (standalone, WLC or LANCOM Management Costandalone)	ry-specific restrictions)
Others Wireless Quality Indicators (WQI), Hotspot 2.0 *) Note The effective distances and transmission rates that can be achiev Supported WLAN standards IEEE 802.11ac Wave 2 (Wi-Fi 5), IEEE 802.11n (Wi-Fi 4), IEEE 802.18 802.17, IEEE 802.11u, IEEE 802.11r (Fast Roaming), IEEE 802.11k, IEE Frames), WME and U-APSD/WMM Power Save as defined in IEEE Standard IEEE 802.11ac (Wi-Fi 5) Supported features 2x2 MIMO, 80 MHz/160 MHz channels, MU-MIMO, QAM-256 Standard IEEE 802.11n (Wi-Fi 4) Supported features 2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Combining), Short Guard Interval WLAN operating modes Modes WLAN access point (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone or AutoWDS*), (standalone or AutoWDS*), (standalone or AutoWDS*)	and deactivation of WLAN networks
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802.1X, IEEE 802.11u, IEEE 802.11r (Fast Roaming), IEEE 802.11k, IEEE Frames), WME and U-APSD/WMM Power Save as defined in IEEE Standard IEEE 802.11ac (Wi-Fi 5) Supported features 2x2 MIMO, 80 MHz/160 MHz channels, MU-MIMO, QAM-256 Standard IEEE 802.11n (Wi-Fi 4) Supported features 2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Combining), Short Guard Interval WLAN operating modes WLAN access point (standalone, WLC or LANCOM Management Content of Standalone or AutoWDS*), (standalone, WLC or LANCOM Management Content of Standalone)	
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Standard IEEE 802.11n (Wi-Fi 4) Supported features 2x2 MIMO, 40 MHz channel, 20/40MHz coexistence mechanisms Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Combining), Short Guard Interval WLAN operating modes WLAN access point (standalone, WLC or LANCOM Management C (standalone or AutoWDS*), (standalone, WLC or LANCOM Management)	
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(standalone or AutoWDS*), (standalone, WLC or LANCOM Manage	
*) Note Only in installations with WLAN controller	



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 Active Radio Contr	ol
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)
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



Layer 2 features	
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	
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, SNTF 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



Interfaces	
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
External antenna connectors	Four reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors. Please respect the restrictions which apply in your country when setting up an antenna system. For information about calculating the correct antenna setup, please refer to www.lancom-systems.com
Hardware	
Power supply	12 V DC, external power adapter (230 V), PoE (Power over Ethernet), compliant with IEEE 802.3at
Environment	Temperature range 0° to 45 °C (vertical wall mount with LANCOM Wall Mount (LN)), 0° to 37 °C (horizontal ceiling mount with LANCOM Wall Mount (LN)). Access point overheating is avoided by automatic throttling of the Wi-Fi modules. Humidity 0 to 95 %; non-condensing
Power consumption (max)	Approx. 15.1 W via power adapter (value refers to the total power consumption of access point and power adapter), Approx. 14.9 W via PoE (value solely refers to the power consumption of the access point)
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	3
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
lPerf	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
Medical	Medical conformity with EN 60601-1-2
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
Antenna	Four 3 dBi dipole dual-band antennas
Power supply unit	External power adapter (230 V), coaxial power connector 2.1/5.5 mm, temperature range from -5 to +45° C
Support	
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 Lifecycle Managements (<u>www.lancom-systems.com/lifecycle</u>)
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)



Support	
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)	
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)	
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)	
After discontinuation (End of Sale), the device is subject to the LANCOM Lifecycle Management. Details can be found at: www.lancom-systems.com/lifecycle	
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.	
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 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 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 License (5 Years), enables the management of one category A device for five years via the LANCOM Management Cloud, item no. 50102	
LANCOM WLC-30, ArtNr. 61789 (EU), LANCOM WLC-1000, ArtNr. 61783 (EU), LANCOM WLC Basic Option for Routers, ArtNr. 61639	
AirLancer IN-Q180+, item no. 61249	
Robust mounting plate for simple, theft-proof mounting of LANCOM devices with LN housing, Item no. 61342	
10x white LANCOM WLAN PSU 230V to 12V/2A DC power adapter, item no. 61814	



Accessories	
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)
Item number(s)	
LANCOM LN-862 (EU/UK)	61770 (EU), 61771 (UK)
LANCOM LN-862 (Bulk 10)	61772

