



LANCOM LW-500

Great value Wi-Fi for smaller environments

The LANCOM LW-500 features high-throughput 802.11ac Wave 2 wireless LAN (Wi-Fi 5) and is ideal for hotels. It is suitable for inconspicuous ceiling mounting with an understated design that blends harmoniously into any environment. The access point is easily integrated into the network via the LANCOM Management Cloud (LMC); alternatively, it can be managed as a stand-alone device using the intuitive web interface (WEBconfig). This makes it the ideal solution for expanding your wireless infrastructure at an unbeatable price.

- Dual concurrent Wi-Fi—parallel operation at 2.4 GHz and 5 GHz with IEEE 802.11ac Wave 2 (Wi-Fi 5) and IEEE 802.11n (Wi-Fi 4)
- Unobtrusive smoke-detector design with integrated antennas
- Intuitive web interface (WEBconfig) for easy management and monitoring
- Automated operation via the LANCOM Management Cloud (LMC)
- Power supply optionally by Power over Ethernet (IEEE 802.3af) or with included power supply (EU, incl. adapter for UK, US, AU)
- User-friendly, secure integration of external users with the hotspot function of the LANCOM Management Cloud (LMC) or via LANCOM router with public spot option
- Available as individual items or as 10-piece bulk items (shipped without power adapters) for large installations

LANCOM LW-500

Dual concurrent Wi-Fi with up to 867 Mbps

The LANCOM LW-500 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.

Understated smoke-detector design

The white LANCOM LW-500 with integrated antennas has an unobtrusive and harmonious form. The round design similar to a smoke detector makes it ideal for unobtrusive use in hotel lobbies or conference rooms. It blends seamlessly into any environment.

Modern web interface for stand-alone operation

For stand-alone operation, the intuitive web interface of the new WEBconfig provides the best overview for comprehensive management and monitoring. The device is set up in a moment. Modern dashboards clearly display the current Wi-Fi status and enable the simple configuration of individual Wi-Fi networks (SSID) and the associated network keys. Other options include smart features such as the easy integration of new clients using QR codes.

Operates via the LANCOM Management Cloud

The LANCOM LW-500 offers unsurpassed user-friendliness: Managed through the LANCOM Management Cloud, it integrates into a holistic, automated network orchestration system based on software-defined networking technology.

Flexible power supply

Thanks to the power supply via power over Ethernet as per IEEE 802.3af, the LANCOM LW-500 operates at any PoE-powered Ethernet port. Alternatively, the access point operates with a power supply unit supplied with various plug adapters (EU, UK, US, AU).

Zero-touch deployment

Quick and easy network integration of the LANCOM LW-500 as well as automatic assignment of the configuration—without manual effort. In combination with the LANCOM Management Cloud, the access point receives the right configuration immediately after network authentication.

LANCOM security for wireless networks

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.

Secure integration of external users

Offer your guests a secure and user-friendly hotspot with the LANCOM LW-500. Since the access point is operated in the LANCOM Management Cloud, all you need is any Public Spot-enabled LANCOM device in your network. As a hotspot provider, rest assured that your internal network remains fully isolated from the hotspot.

LANCOM LW-500

LCOS LX 4.00

Wi-Fi product specification	
Frequency band 2.4 GHz and 5 GHz	2400-2483.5 MHz (ISM), 5150-5700 MHz (depending on country-specific restrictions)
Integrated Antenna Gain (per antenna (4))	up to 3 dBi in 2.4 GHz, up to 4 dBi in 5 GHz
Integrated Antenna Gain (per antenna (8))	up to 3 dBi in 2.4 GHz, up to 4 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).
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)
Output power at radio module WLAN-1, 2.4 GHz	IEEE 802.11b: +20 dBm @ 1 MBit/s, +20 dBm @ 11 MBit/s, IEEE 802.11g: +20 dBm @ 6 MBit/s, +17 dBm @ 54MBit/s, IEEE 802.11n: +20 dBm @ MCS0/20 MHz, +16 dBm @ MCS7/20 MHz, +20 dBm @ MCS0/40 MHz, +16 dBm @ MCS7/40 MHz, +14 dBm @ MCS9/40 MHz
Output power at radio module WLAN-2, 5 GHz	IEEE 802.11a: +19 dBm @ 1 MBit/s, +16 dBm @ 54 MBit/s, IEEE 802.11n: +19 dBm @ MCS0/20 MHz, +16 dBm @ MCS7/20 MHz, +18 dBm @ MCS0/40 MHz, +16 dBm @ MCS7/40 MHz IEEE 802.11ac: +18 dBm @ MCS0/80 MHz, +16 dBm @ MCS7/80 MHz, +14 dBm @ MCS9/80 MHz
Receiver sensitivity WLAN-1, 2.4 GHz	IEEE 802.11b: -92 dBm @ 1 MBit/s, -86 dBm @ 11 MBit/s, IEEE 802.11g: -86 dBm @ 6 MBit/s, -67 dBm @ 54 MBit/s, IEEE 802.11n: -82 dBm @ MCS0/20 MHz, -66 dBm @ MCS7/20 MHz, -79 dBm @ MCS0/40 MHz, -63 dBm @ MCS7/40 MHz, -57 dBm @ MCS9/40 MHz
Receiver sensitivity WLAN-2, 5 GHz	IEEE 802.11a: -85 dBm @ 6 MBit/s, -68 dBm @ 54 MBit/s, IEEE 802.11n: -85 dBm @ MCS0/20 MHz, -64 dBm @ MCS7/20 MHz, -82 dBm @ MCS0/40 MHz, -63 dBm @ MCS7/40 MHz IEEE 802.11ac: -78 dBm @ MCS0/80 MHz, -61 dBm @ MCS7/80 MHz, -54 dBm @ MCS9/80 MHz
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)
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (depending on country-specific restrictions)
Multi-SSID	Up to 32 (simultaneous use of up to 16 independent Wi-Fi networks at WLAN interface 1 and up to 16 independent Wi-Fi networks at WLAN interface 2)
Concurrent Wi-Fi clients	Up to 511 clients
Supported Wi-Fi standards	
IEEE standards	IEEE 802.11ac Wave 2, IEEE 802.11n, IEEE 802.11a, IEEE 802.11g, IEEE 802.11b, IEEE 802.11i, IEEE 802.1X, IEEE 802.11h, IEEE 802.11d
Standard IEEE 802.11ac	
Supported features	2x2 MIMO, 80 MHz channels, MU-MIMO, QAM-256
Standard IEEE 802.11n	
Supported features	2x2 MIMO, 40-MHz channels, 20/40MHz coexistence mechanisms in the 2.4 GHz band, MAC aggregation, Block Acknowledgement, STBC (Space Time Block Coding), LDPC (Low Density Parity Check), MRC (Maximal Ratio Combining), Short Guard Interval
Operating modes	
Modes	Standalone or LANCOM Management Cloud managed; operation via WLAN controller is currently not supported
Wi-Fi security	
Encryption options	IEEE 802.1X (WPA2-Enterprise), IEEE 802.11i (WPA2-Personal), WEP
Encryption algorithms	AES-CCMP (Advanced Encryption Standard with Counter Mode and Cipher Block Chaining Message Authentication Code Protocol), TKIP (Temporal Key Integrity Protocol), RC4 (only used by WEP)
EAP types (authenticator)	EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-FAST
Roaming	
Roaming	IAPP (Inter Access Point Protocol)
LANCOM Active Radio Control	
Band Steering	Steering of 5GHz clients to the corresponding high-performance frequency band
Layer 2 functions	
VLAN	4096 VLAN IDs, static assignment to SSIDs

LANCOM LW-500

LCOS LX 4.00

Layer 2 functions	
Quality of Service	WME based on IEEE 802.11e
Bandwidth limitation	Per SSID
Interfaces	
Ethernet ports	2 x 10/100/1000BASE-T autosensing (RJ-45), IEEE 802.3az, PoE (Power over Ethernet) at LAN1
Internal antenna	Two internal antennas per radio interface (four in total)
Hardware	
Power supply	12 V DC, external power adapter (230 V), PoE (Power over Ethernet), compliant with IEEE 802.3af
Environment	Temperature range 0–40 °C. Humidity 0–90 %; non-condensing
Housing	Robust synthetic housing, ready for ceiling mounting, dimensions 276 mm x 40 mm (D x H)
Management and monitoring	
Management	LANCOM Management Cloud, WEBconfig, LANconfig
Monitoring	LANCOM Management Cloud, WEBconfig
Declarations of Conformity*	
CE	EN 60950-1, EN 301 489-1, EN 301 489-17, EN 62368-1
2.4 GHz Wi-Fi	EN 300 328
5 GHz Wi-Fi	EN 301 893
Country of Origin	Software designed in Germany, Assembled in China
Scope of delivery	
Documentation	Installation Guide (DE/EN); Mounting Instructions (DE/EN)
Mounting kit	Mounting kit for wall mounting, ceiling mounting and T-rail mounting
Cable	Ethernet cable, 1 m
Power supply unit	External power adapter (100-240 V), model no. WA-12M12R, 12 V/1 A DC, incl. interchangeable AC plug for EU, UK, US, AU (not included in bulk delivery)
Accessories	
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)
Support	
Warranty	3 years support
Software updates	Regular free updates
Item number(s)	
LANCOM LW-500 (WW)	61694
LANCOM LW-500 (Bulk 10)	61695

