

LANCOM OW-602

Highspeed Wi-Fi 6 for harsh environments



In parking lots, cold storage, warehouses, outdoor areas, or school grounds - wherever professional WLAN needs to be provided under any weather conditions, the LANCOM OW-602 is the ideal and cost-effective solution. This Wi-Fi 6 outdoor access point offers low latency and high throughput per client - especially in low to medium device density environments. Included omnidirectional antennas enable wide-area coverage with the best Wi-Fi for an excellent user experience. Optional sector antennas enable targeted coverage of areas.

- Dual-concurrent Wi-Fi - parallel operation in 2.4 GHz and 5 GHz in Wi-Fi 6 (IEEE 802.11ax)
- 2x2 external omnidirectional antennas
- 2x 1 Gigabit Ethernet interface
- Robust IP67 protective housing - reliable even at extreme temperatures (-30°C to +65°C)
- Bluetooth Low Energy 5.1
- Automated operation via the LANCOM Management Cloud (LMC)
- WLAN controller support
- Support of the security standard WPA3



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Dual concurrent Wi-Fi with an aggregated data rate of up to 1,775 Mbps

The LANCOM OW-602 offers WLAN in the Wi-Fi 6 standard (IEEE 802.11ax) and can provide simultaneously both clients in the 2.4 GHz frequency band and modern end devices in the 5 GHz band with fast WLAN. Wi-Fi 6 technology enables transmission rates of up to 1,200 Mbps in 5 GHz and up to 575 Mbps in 2.4 GHz.

Maximum reliability in all weather conditions

The LANCOM OW-602 has a rugged IP67 protective housing, making it completely dust- and waterproof. In addition, a temperature range of -30°C to +65°C guarantees reliable operation under extreme conditions.

Zero-Touch Deployment

Quick and easy network integration of the access point as well as automatic configuration assignment without manual configuration. In WLAN controller- or LANCOM Management Cloud-based installations, the access point immediately receives a suitable configuration after network authentication.

Integrated Bluetooth Low Energy technology

The Bluetooth Low Energy radio module integrated in the LANCOM OW-602 is the technical basis for modern BLE beaconing-based applications, such as asset tracking or visitor counting.

Operates via the LANCOM Management Cloud

The LANCOM OW-602 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.

Uncompromised additional services for maximum future security

The LANCOM OW-602 supports the fast WLAN standard IEEE 802.11ax (Wi-Fi 6), so you are technically well equipped for future challenges. LANCOM Systems provides a warranty of 3 years on the OW-602, which can easily be extended to 5 years with the Warranty Basic Option M or the Warranty Advanced Option M. The OW-602 is also covered by a software warranty. On the software side, you also benefit from the high LANCOM standards: Several times a year, you receive free major releases of the LCOS LX operating system with new, future-proof features. Even if a product is discontinued, we offer free major releases, critical security fixes (security updates) based on the last available software version, and free technical manufacturer support for at least another 2 years as part of LANCOM software lifecycle management.

LANCOM security for wireless networks

WPA3, the successor to WPA2, offers important enhancements and security features for small ("WPA3-Personal") and large ("WPA3-Enterprise") networks. WPA3-Personal uses the modern and secure authentication method Simultaneous Authentication of Equals (SAE).



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Secure integration of external users

Using a cloud-managed hotspot via LANCOM Management Cloud, the LANCOM OW-602 is ideal for providing WLAN hotspots. The user benefits from secure and convenient Wi-Fi access, and the hotspot provider has the assurance that its own network remains separate from the guest network.



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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)
Data rates IEEE 802.11ax	→ up to 1200 MBit/s according to IEEE 802.11ax with MCS11/QAM-1024 at 5 GHz, 2x2 MIMO and 80 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 802.11ac/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)
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 (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); time-controlled activation and deactivation of Wi-Fi networks
Hotspot	Support for the Cloud-managed Hotspot in combination with the LANCOM Management Cloud

Supported Wi-Fi standards

IEEE standards	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, IEEE 802.11h, IEEE 802.11d, IEEE 802.11v
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Standard IEEE 802.11ax

Supported features	2x2 DL-/UL-MU-MIMO, DL-/UL-OFDMA, triggered target-wake-time, BSS coloring, QAM-1024, 80 MHz channels
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Standard IEEE 802.11ac

Supported features	2x2 MIMO, 80 MHz channels, MU-MIMO, QAM-256
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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
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Operating modes

Modes	Standalone, WLC-managed or LANCOM Management Cloud managed
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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

Band Steering Steering of 5GHz clients to the corresponding high-performance frequency band; support for 802.11v

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.

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

Network

Protocols IPv4, IPv6, dual stack

Interfaces

Ethernet ports
 → 1x 10/100/1000BASE-T (RJ-45), PoE (Power over Ethernet)
 → 1x 10/100/1000BASE-T (RJ-45)
 → Both ethernet ports offer a water-proof cable gland for use with outdoor ethernet cables with an outer diameter of 6.5mm to 8.5mm.
 → The LAN2 cable gland comes with a pre-mounted dummy plug to enable waterproof installation where only a single ethernet connection is needed.

Antenna connectors Four N-type antenna connectors



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Hardware

Power supply	PoE 802.3at
Power consumption	max. 15.2W
Environment	temperature range -30°C - +65°C, protection class IP67
Housing	Robust plastic housing, IP67 protection rating, accessories for wall and pole mounting included; Dimensions 250×200×80mm; Dimensions of the included antennas 190×23mm (dimensions of one single external antenna)

Management and monitoring

Management	LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANconfig, LL2M, external Syslog, Packet Capturing
Monitoring	LANCOM Management Cloud, WLAN-Controller, WEBconfig, LANmonitor, SNMP

Conformity*

Europe/EFTA	CE
Australia / New Zealand	RCM
Country of Origin	Software designed in Germany, Assembled in Taiwan
*) 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 kit	Mounting kit for wall and pole mounting
Antennas	Two 2.4 GHz WiFi omni antennas (5 dBi), two 5 GHz WiFi omni antennas (7 dBi)

Accessories

LANCOM PoE++ Injector	1-port PoE injector with up to 5 Gigabit support, integrated power supply, compatible with the standard IEEE 802.3af/at/bt (up to 65W), item no. 61779 (EU)
LANCOM OW-602 Ethernet Cable (15 m)	outdoor ethernet cable, 15 m (black, 2x RJ45), item no. 61336
LANCOM OW-602 Ethernet Cable (30 m)	outdoor ethernet cable, 30 m (black, 2x RJ45), item no. 61337
AirLancer ON-D8a	Outdoor Wi-Fi directional antenna with 8° directional beam, item no. 61708



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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 (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 M	Service package with security updates and support entitlement* until EOL and 5 years replacement service (* support access required, e.g. support contract or LANCOM Service Packs 24/7 or 10/5), item no. 10721
LANcare Advanced M	Service package with security updates and support entitlement* until EOL and 5 years NBD advance replacement (* support access required, e.g. support contract or LANCOM Service Packs 24/7 or 10/5), item no. 10731
LANcare Direct Advanced 24/7 M	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. 10779, 10780 or 10781)
LANcare Direct 24/7 M	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. 10755, 10756 or 10757)
LANcare Direct Advanced 10/5 M	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. 10767, 10768 or 10769)
LANcare Direct 10/5 M	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. 10743, 10744 or 10745)

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.

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



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LANCOM Management Cloud

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

Item number(s)

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transmit power and receiver sensitivity

		per chain	two MIMO chains	including internal antenna	receiver sensitivity
802.11b (2,4 GHz)	1 Mbps	21	24	29	-96
	11 Mbps	21	24	29	-89
802.11g (2,4 GHz)	6 Mbps	21	24	29	-92
	54 Mbps	20	23	28	-76
802.11n (2,4 GHz)	MCS0 HT20	20	23	28	-91
	MCS7 HT20	20	23	28	-73
802.11a (5 GHz)	6 Mbps	19	22	29	-90
	54 Mbps	18	21	28	-72
802.11n (5 GHz)	MCS0 HT20	17	20	27	-90
	MCS7 HT20	15	18	25	-72
802.11ax (5 GHz)	MCS9 HE80	19	22	29	-85
	MCS11 HE80	18	21	28	-58