

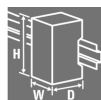
IE-WLT-BL-AP-CL-US**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Features of the BasicLine (IE-WL-BL series)**

- IEEE 802.11a/b/g/n compliant access point / client
- MIMO technology for data rates up to 300 Mbit/s
- Fast roaming for interruption-free connection switching between access points
- DFS support in the 5 GHz band

Features of the ValueLine (IE-WL-VL series)

- IEEE 802.11a/b/g/n compliant access point / client / bridge
- MIMO technology for data rates up to 300 Mbit/s
- Fast roaming for interruption-free connection switching between access points
- DFS support in the 5 GHz band
- Power supply via PoE to IEEE 802.3af possible
- Integrated DI/DOs for monitoring and alarms

General ordering data

| | |
|------------|---|
| Version | Wireless Access Point/Client, IEEE 802.11 a/b/g/n, US-Model, IP30, -40 °C...75 °C |
| Order No. | 2536670000 |
| Type | IE-WLT-BL-AP-CL-US |
| GTIN (EAN) | 4050118548686 |
| Qty. | 1 pc(s). |

IE-WLT-BL-AP-CL-US

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Technical data

Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Depth | 70 mm | Depth (inches) | 2.756 inch |
| Height | 115 mm | Height (inches) | 4.528 inch |
| Width | 58 mm | Width (inches) | 2.283 inch |
| Net weight | 330 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...75 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

EMC conformity and approvals

| | | | |
|---------------|--|-----------------|---|
| EMC standards | EN 55032, EN 55024, CISPR 32, FCC Part 15B Class B, IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-6 CS: 3 V/m, IEC 61000-4-8 | Safety standard | |
| Shock | according to IEC 60068-2-27 | Vibration | SELV according to EN 62368-1, UL 60950-1 according to IEC 60068-2-6 |
| Wireless | EN 301 489-1/17, EN 300 328, EN 301893, TELEC, FCC ID SLE-WAPN008 | | |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity | 5 to 95 % (non-condensing) | Operating temperature, max. | 75 °C |
| Operating temperature, min. | -40 °C | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C | | |

Guarantee

| | |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

Interfaces

| | | | |
|---------------------------------|--|------------------------|--|
| Connector for external antennas | 2x RP-SMA female | Console port interface | RS-232 (RJ45 connector) |
| Function reset button | Restoration of factory settings | LED indicator | PWR, FAULT, STATE, SIGNAL, WLAN, 10/100/1000M (TP-Port) |
| RJ45 ports | 10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port | Standard antenna | 2 dBi omni-directional dual band antenna, RP-SMA (male plug) |

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 749,476 h |

Creation date November 5, 2024 7:16:24 PM CET

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Power supply

| | | | |
|-----------------------------|--|------|--|
| Connection type | 1 removable 4-pin terminal block, 500 V insulation | | |
| Current consumption | 0.56 A at 12 V DC, 0.14 A at 48 V DC | | |
| Power consumption | 6.96 W | | |
| Reverse polarity protection | Available | | |
| Voltage supply | 24 V DC, 2 redundant inputs | | |
| Voltage supply range | Voltage type | DC | |
| | Voltage, min. | 12 V | |
| | Voltage, max. | 48 V | |

Technical data

| | | | |
|-----------------------|----------|-------------------|------|
| Housing main material | metal | Protection degree | IP30 |
| Type of mounting | DIN rail | | |

Technology

| | | | |
|----------|--|---------------------|---|
| Standard | IEEE 802.11 a/b/g/n for Wireless LAN, IEEE 802.11i for Wireless Security, IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X), IEEE 802.3ab for 1000BaseT(X) | Supported protocols | Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNMP, TCP, UDP, Radius, SNMP, DHCP, LLDP |
|----------|--|---------------------|---|

WLAN interface

| | | |
|---|---|----------------|
| Data security | SSID broadcast enable/disable, Firewall for MAC/IP/protocol/port-based filtering, 64-bit and 128-bit WEP encryption, WPA/WPA2 Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES) | |
| Operating channels (mid-band) | US: 2.412 to 2.462 GHz (11 channels); 5.180 to 5.240 GHz (4 channels); 5.260 to 5.320 GHz (4 channels); 5.500 to 5.700 GHz (8 channels, apart from 5.600 to 5.640 GHz); 5.745 to 5.825 GHz (5 channels) | |
| Spreading code process and modulation (typical) | DSSS with DBPSK, DQPSK, CCK, OFDM with BPSK, QPSK, 16QAM, 64QAM, 802.11b: CCK at 11/5.5 MBit/s, DQPSK at 2 MBit/s, DBPSK at 1 MBit/s, 802.11a / g: 64QAM at 54/48 MBit/s, 16QAM at 36/24 MBit/s, QPSK at 18/12 MBit/s, BPSK at 9/6 MBit/s, 802.11n: 64QAM at 300 MBit/s to BPSK at 6.5 MBit/s | |
| Transmission rate | 802.11b: 1, 2, 5.5, 11 MBit/s, 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 MBit/s, 802.11n: 6.5 to 300 MBit/s | |
| Transmission rate WLAN | Standard | IEEE 802.11b |
| | max. | 11 Mbps |
| | min. | 1 Mbps |
| | Standard | IEEE 802.11a/g |
| | max. | 54 Mbps |
| | min. | 6 Mbps |
| | Standard | IEEE 802.11n |
| | max. | 300 Mbps |
| | min. | 6.5 Mbps |
| Transmit power | 802.11b: type 26±1.5 dBm at 1 MBit/s, type 26±1.5 dBm at 2 MBit/s, type 26±1.5 dBm at 5.5 MBit/s, type 25±1.5 dBm at 11 MBit/s, 802.11g: type 23±1.5 dBm to 6 to 24 MBit/s, type 23±1.5 dBm at 36 MBit/s, type 19±1.5 dBm at 48 MBit/s, type 18±1.5 dBm at 54 MBit/s, 802.11a: type 23±1.5 dBm at 6 bis 24 MBit/s, type 21±1.5 dBm at 36 MBit/s, type 20±1.5 dBm at 48 MBit/s, type 18±1.5 dBm at 54 MBit/s, 802.11n (2.4 GHz): type 23±1.5 dBm at MCS0/8 20 MHz, type 18±1.5 dBm at MCS7/15 20 MHz, type 23±1.5 dBm at MCS0/8 40 MHz, type 17±1.5 dBm at MCS7/15 40 MHz, 802.11n (5 GHz): type 23±1.5 dBm at MCS0/8 20 MHz, type 18±1.5 dBm at MCS7/15 20 MHz, type 23±1.5 dBm at MCS0/8 40 MHz, type 17±1.5 dBm at MCS7/15 40 MHz | |

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Wireless LAN receive sensitivity

802.11b: -93 dBm at 1 MBit/s, -93 dBm at 2 MBit/s, -93 dBm at 5.5 MBit/s, -88 dBm at 11 MBit/s, 802.11g: -88 dBm at 6 MBit/s, -86 dBm at 9 MBit/s, -85 dBm at 12 MBit/s, -85 dBm at 18 MBit/s, -85 dBm at 24 MBit/s, -82 dBm at 36 MBit/s, -78 dBm at 48 MBit/s, -74 dBm at 54 MBit/s, 802.11a: -90 dBm at 6 MBit/s, -88 dBm at 9 MBit/s, -88 dBm at 12 MBit/s, -85 dBm at 18 MBit/s, -81 dBm at 24 MBit/s, -78 dBm at 36 MBit/s, -74 dBm at 48 MBit/s, -72 dBm at 54 MBit/s, 802.11n (2.4 GHz): -70 dBm at MCS7 20 MHz, -69 dBm at MCS15 20 MHz, -67 dBm at MCS7 40 MHz, -67 dBm at MCS15 40 MHz, 802.11n (5 GHz): -69 dBm at MCS7 20 MHz, -71 dBm at MCS15 20 MHz, -63 dBm at MCS7 40 MHz, -68 dBm at MCS15 40 MHz

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000816 | ETIM 7.0 | EC000816 |
| ETIM 8.0 | EC000816 | ETIM 9.0 | EC000816 |
| ECLASS 9.0 | 19-17-02-01 | ECLASS 9.1 | 19-17-02-06 |
| ECLASS 10.0 | 19-17-05-01 | ECLASS 11.0 | 19-17-05-01 |
| ECLASS 12.0 | 19-17-05-01 | ECLASS 13.0 | 19-17-05-01 |
| ECLASS 14.0 | 19-17-05-01 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E230683 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | KC certificate EU Declaration of Conformity UK Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Product Change Notification | Firmware Release Notes Product Change Notification IE-WL-BL-series |
| Software | Software – WLAN Administration Tool Firmware – Current Firmware Device description – SNMP private MIB |
| User Documentation | Hardware Installation Guide Manual 20210702 Security Advisory – Multiple vulnerabilities in Industrial WLAN devices (Update A) |
| Catalogues | Catalogues in PDF-format |

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Accessories

Antennas and antenna accessories (coax cables and mounts)



Antennas and antenna accessories (coax cables and mounts)

- State-of-the-art antennas
- Industry proven
- Robust design (up to IP67 protection)
- For outdoor and indoor use
- Latest technology support
- Up to Wi-Fi 6 and Wi-Fi 6E (2.4 GHz, 5 GHz, 6 GHz)
- Up to 5G (NR) support (700 MHz - 3.8 GHz)
- Also support for other technologies (e.g. Bluetooth, GNSS, etc.)
- Appropriate coax cables at different lengths
- Suitable pole and wall mounts

General ordering data

| | | |
|------------|-----------------------------|--|
| Type | IE-ANT-O-AH-360-5-NF | Version |
| Order No. | 1367120000 | WLAN antenna, Omni-directional antenna, 5 GHz band, Gain of 5 dBi, |
| GTIN (EAN) | 4050118186345 | Vertical, 1x N-type female, bottom, IP64, Impedance: 50 Ω |
| Qty. | 1 pc(s). | |
| Type | IE-ANT-WL-DB-SISO-LO-NF | Version |
| Order No. | 2788110000 | Omni-directional antenna, Wi-Fi antenna, Up to Wi-Fi 6 & 6E |
| GTIN (EAN) | 4064675066378 | (IEEE802.11ax), Vertical, N female, IP67, Impedance: 50 Ω |
| Qty. | 1 pc(s). | |
| Type | IE-ANT-P-ABG-75-9-NF | Version |
| Order No. | 1367140000 | WLAN antenna, Directional antenna, Dual Band (2.4 GHz / 5 GHz), |
| GTIN (EAN) | 4050118186338 | Gain 9 dBi, Vertical, 1x N-type female, bottom, IP67, Impedance: 50 Ω |
| Qty. | 1 pc(s). | |
| Type | IE-ANT-CELL/WL-MB-MIMO- ... | Version |
| Order No. | 2788090000 | Omni-directional antenna, Cellular antenna, Wi-Fi antenna, Up to 5G |
| GTIN (EAN) | 4064675066354 | (NR), Up to Wi-Fi 6 & 6E (IEEE802.11ax), Linear, Vertical, 2x SMA |
| Qty. | 1 pc(s). | male, 2x RP-SMA male, IP67, Impedance: 50 Ω |
| Type | IE-ANT-O-ABG-360-7-NF | Version |
| Order No. | 1367130000 | WLAN antenna, Omni-directional antenna, Dual Band (2.4 GHz / 5 |
| GTIN (EAN) | 4050118186321 | GHz), Gain of up to 8 dBi at 5 GHz / up to 6 dBi at 2.4 GHz, Vertical, |
| Qty. | 1 pc(s). | 1x N-type female, bottom, IP68, Impedance: 50 Ω |
| Type | IE-ANT-WL-DB-MIMO-PD-RP ... | Version |
| Order No. | 2788080000 | Semi-directional antenna, Wi-Fi antenna, Up to Wi-Fi 6 & 6E |
| GTIN (EAN) | 4064675066347 | (IEEE802.11ax), +/- 45° linear, 4x RP-SMA male, IP67, Impedance: 50 |
| Qty. | 1 pc(s). | Ω |
| Type | IE-ANT-WL-DB-MIMO-DO-RP ... | Version |
| Order No. | 2788070000 | Omni-directional antenna, Wi-Fi antenna, Up to Wi-Fi 6 & 6E |
| GTIN (EAN) | 4064675066330 | (IEEE802.11ax), Linear, Vertical, 2x RP-SMA male, IP67, Impedance: |
| Qty. | 1 pc(s). | 50 Ω |
| Type | IE-ANT-O-BG-360-6-NF | Version |
| Order No. | 1367090000 | WLAN antenna, Omni-directional antenna, 2.4 GHz band, Gain of 6 |
| GTIN (EAN) | 4050118186352 | dBi, Vertical, 1x N-type female, bottom, IP67, Impedance: 50 Ω |
| Qty. | 1 pc(s). | |

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Accessories

Configuration backup and restore module (for use with switches of Value- and PremiumLine such as Basic- and ValueLine WLAN devices)

Module for saving and loading a device configuration

- Reduced system downtime by simple reconfiguration if equipment is swapped over
- Automatic loading of the saved configuration possible after device restart
- Compact and robust design
- Useable with all Weidmüller managed switches and industrial WLAN devices

General ordering data

| | | |
|------------|----------------------------|--|
| Type | EBR-MODULE RS232 | Version |
| Order No. | 1241430000 | Configuration module, IP40, 0 °C...60 °C |
| GTIN (EAN) | 4050118029086 | |
| Qty. | 1 pc(s). | |

Ethernet


- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

General ordering data

| | | |
|------------|----------------------------|--|
| Type | VDATA CAT6 | Version |
| Order No. | 1348590000 | Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1, 802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4 |
| GTIN (EAN) | 4050118153002 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Mounting kit for 19" rack assembly**

- For assembling DIN rail-based devices on 19" racks

**General ordering data**

| | | |
|------------|----------------------------|---------------------------|
| Type | RM-KIT | Version |
| Order No. | 1241440000 | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154 | |
| Qty. | 1 pc(s). | |