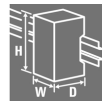


**IE-WL-BL-AP-CL-EU****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, EU-Model, IP30, 0 °C...60 °C |
| Order No.  | <a href="#">2536600000</a>  |
| Type       | IE-WL-BL-AP-CL-EU   |
| GTIN (EAN) | 4050118548655   |
| Qty.       | 1 pc(s).  |

## IE-WL-BL-AP-CL-EU

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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 | 0 °C...60 °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. | 60 °C |
| Operating temperature, min. | 0 °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 7:31:15 PM CET

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## Technical data

## 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)                   | EU: 2.412 to 2.472 GHz (13 channels); 5.180 to 5.240 GHz (4 channels); 5.260 to 5.320 GHz (4 channels); 5.500 to 5.700 GHz (11 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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## Technical data

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

## IE-WL-BL-AP-CL-EU

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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-P-ABG-75-9-NF        | Version  |
| Order No.  | <a href="#">1367140000</a>  | 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-WL-DB-SISO-LO-NF     | Version  |
| Order No.  | <a href="#">2788110000</a>  | 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-WL-DB-MIMO-PD-RP ... | Version  |
| Order No.  | <a href="#">2788080000</a>  | 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 Ω  |
| Qty.       | 1 pc(s).                    |  |
| Type       | IE-ANT-CELL/WL-MB-MIMO- ... | Version  |
| Order No.  | <a href="#">2788090000</a>  | 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.  | <a href="#">1367130000</a>  | 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-O-AH-360-5-NF        | Version  |
| Order No.  | <a href="#">1367120000</a>  | 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-MIMO-DO-RP ... | Version  |
| Order No.  | <a href="#">2788070000</a>  | 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.  | <a href="#">1367090000</a>  | 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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[www.weidmueller.com](http://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.  | <a href="#">1241440000</a> | Kit for 19"-rack mounting |
| GTIN (EAN) | 4050118029154              |                           |
| Qty.       | 1 pc(s).                   |                           |

**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.  | <a href="#">1241430000</a> | Configuration module, IP40, 0 °C...60 °C |
| GTIN (EAN) | 4050118029086              |  |
| Qty.       | 1 pc(s).                   |  |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.  | <a href="#">1348590000</a> | Terminal rail fixing, Surge protection, Cat.6, PoE, 802.3 bt at Type 1, |
| GTIN (EAN) | 4050118153002              | 802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4              |
| Qty.       | 1 pc(s).                   |   |