

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 items |

Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 70 mm | Depth (inches) | 2.7559 inch |
| Height | 115 mm | Height (inches) | 4.5275 inch |
| Width | 58 mm | Width (inches) | 2.2835 inch |
| Net weight | 330 g | | |

Temperatures

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

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 |

EMC conformity and approvals

| | | | |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|
| EMC standards | EN 55032, EN 55035, 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 | Wireless | EN 301 489-1/17, EN 300 328, EN 301893, TELECOM, FCC ID SLE-WAPN008 |
| Vibration | according to IEC 60068-2-6 | Shock | according to IEC 60068-2-27 |
| Safety standard | SELV according to EN 62368-1, UL 60950-1 | Security standard | EN 18031-1 |

Environmental conditions

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

Guarantee

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

IE-WLT-BL-AP-CL-US

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Interfaces

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

MTBF

| | | |
|------|------------------------------|------------------|
| MTBF | According to Standard | Telcordia SR-332 |
| | Operating time (hours), min. | 749476 h |

Power supply

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

Technical data

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

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

| | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 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 Mbit/s |
| | min. | 1 Mbit/s |
| | Standard | IEEE 802.11a/g |
| | max. | 54 Mbit/s |
| | min. | 6 Mbit/s |
| Transmit power | Standard | IEEE 802.11n |
| | max. | 300 Mbit/s |
| | min. | 6.5 Mbit/s |
| 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, | |

IE-WLT-BL-AP-CL-US

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

Technical data

www.weidmueller.com

| | |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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 |
| 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 |
| 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) |
| 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) |
| 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 |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000816 | ETIM 9.0 | EC000816 |
| ETIM 10.0 | EC000816 | ECLASS 14.0 | 19-17-05-01 |
| ECLASS 15.0 | 19-17-05-01 | | |

IE-WLT-BL-AP-CL-US

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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-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 ST | 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: |
| Qty. | 1 ST | 50 Ω |
| 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 ST | male, 2x RP-SMA female, IP67, Impedance: 50 Ω |
| 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 ST | |
| 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 ST | 1x N-type female, bottom, IP68, Impedance: 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 ST | |
| 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 ST | |
| 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 ST | |

IE-WLT-BL-AP-CL-US

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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 ST | | |

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 ST | | |

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

IE-WLT-BL-AP-CL-US

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Accessories

General ordering data

| | | |
|------------|----------------------------|-------------------------------------------------------------------------|
| Type | VDATA CAT6 | Version |
| Order No. | 1348590000 | 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 ST | |