

**IE-WLT-BL-AP-CL-US**

**Weidmüller Interface GmbH & Co. KG**

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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.  | <a href="#">2536670000</a>  |
| Type       | IE-WLT-BL-AP-CL-US  |
| GTIN (EAN) | 4050118548686   |
| Qty.       | 1 items   |

**Technical data**

**Approvals**

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| 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 |
|---------------|---------|

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## 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, |                |

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|   |  |
|---|--|
|   | 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 |             |             |