

IE-WL-VL-AP-BR-CL-EU**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/Bridge/Client, IEEE 802.11 a/b/g/n, EU-Model, IP30, -25 °C...60 °C |
| Order No. | 2536680000 |
| Type | IE-WL-VL-AP-BR-CL-EU |
| GTIN (EAN) | 4050118548693 |
| Qty. | 1 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 105 mm | Depth (inches) | 4.134 inch |
| Height | 135 mm | Height (inches) | 5.315 inch |
| Width | 52.7 mm | Width (inches) | 2.075 inch |
| Net weight | 880 g | | |

Temperatures

| | | | |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...60 °C |
| Humidity | 5 to 95 % (non-condensing) | | |

EMC conformity and approvals

| | | | |
|-----------------|--|---------------------|--|
| EMC standards | EN 61000-6-2, EN 61000-6-4, CISPR 22, FCC Part 15B Class B, IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8 | Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc |
| Safety standard | SELV according to EN 62368-1, UL 60950-1 | Shock | according to IEC 60068-2-27 |
| Vibration | according to IEC 60068-2-6 | Wireless | EN 301 489-1/17, EN 300 328, EN 301893, TELECOM, FCC ID SLE-WAPN008 |

Environmental conditions

| | | | |
|-----------------------------|----------------------------|-----------------------------|-------|
| Humidity | 5 to 95 % (non-condensing) | Operating temperature, max. | 60 °C |
| Operating temperature, min. | -25 °C | Storage temperature, max. | 85 °C |
| Storage temperature, min. | -40 °C | | |

Guarantee

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

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Interfaces

| | | | |
|------------------------|--|---------------------------------|---|
| Alarm contact | 1 relay output with a current capacity of 1 A at 24 V DC | Connector for external antennas | 2x RP-SMA female, 500 V insulation |
| Console port interface | | Digital inputs | 2 inputs with the same ground, isolated <ul style="list-style-type: none"> +13 To +30 V for logic "1" -30 To +3 V for logic "0" Max. input current: 8 mA |
| | RS-232 (RJ45 connector) | | |
| Function reset button | Restoration of factory settings | LED indicator | PWR1, PWR2, PoE, FAULT, STATE, SIGNAL, WLAN, LAN |
| 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. | 570,854 h |

Power supply

| | | |
|-----------------------------|--|------|
| Connection type | 1 removable 10-pole terminal block, 500 V insulation | |
| Current consumption | 0.6 A at 12 V DC, 0.15 A at 48 V DC | |
| Power consumption | 7.2 W | |
| Reverse polarity protection | Available | |
| Voltage supply | 24 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af) | |
| 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), IEEE 802.3af for Power-over-Ethernet, IEEE 802.1D for the Spanning Tree protocol, IEEE 802.1w for Rapid STP, IEEE 802.1Q for VLAN tagging | Supported protocols | Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNMP, TCP, UDP, Radius, SNMP, DHCP, VLAN, STP/RSTP, LLDP |
|----------|---|---------------------|---|

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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 | |
| 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 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 9229992a-00b9-4096-8962-200a7f33e289 |

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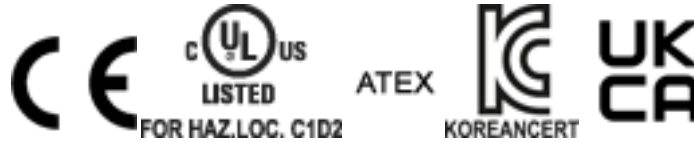
Germany

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Technical data

Approvals

Approvals



| | |
|---------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULusEX) | E344136 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | ATEX certificate 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-VL-series |
| Software | Software – WLAN Administration Tool Firmware – 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 |