

**IE-WL-VL-AP-BR-CL-EU**

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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

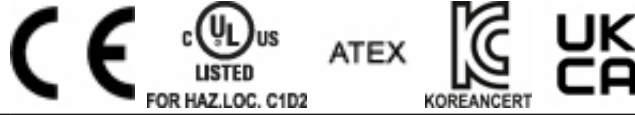
**General ordering data**

|            |   |
|------------|---|
| Version    | Wireless Access Point/Bridge/Client, IEEE 802.11 a/b/g/n, EU-Model, IP30, -25 °C..60 °C |
| Order No.  | <a href="#">2536680000</a>  |
| Type       | IE-WL-VL-AP-BR-CL-EU  |
| GTIN (EAN) | 4050118548693   |
| Qty.       | 1 items   |

Technical data

Approvals

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| Certificate no. (cULusEX) | E344136                    |

Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 105 mm  | Depth (inches)  | 4.1338 inch |
| Height     | 135 mm  | Height (inches) | 5.3149 inch |
| Width      | 52.7 mm | Width (inches)  | 2.0748 inch |
| Net weight | 880 g   |                 |             |

Temperatures

|                     |                            |                       |                |
|---------------------|----------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C             | Operating temperature | -25 °C...60 °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

|                     |  |                 |  |
|---------------------|--|-----------------|--|
| Explosive risk zone | UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc | 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 |
| Wireless            | EN 301 489-1/17, EN 300 328, EN 301893, TELEC, 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. | 60 °C                      | Operating temperature, min. | -25 °C |
| Humidity                    | 5 to 95 % (non-condensing) | Storage temperature, max.   | 85 °C  |
| Storage temperature, min.   | -40 °C                     |                             |        |

**Technical data**

**Guarantee**

Time interval 5 years

**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)                                      |
| Alarm contact                   | 1 relay output with a current capacity of 1 A at 24 V DC  | Function reset button  | Restoration of factory settings                              |
| Digital inputs                  | 2 inputs with the same ground, isolated <ul style="list-style-type: none"> <li>• +13 To +30 V for logic "1"</li> <li>• -30 To +3 V for logic "0"</li> <li>• Max. input current: 8 mA</li> </ul> | Standard antenna       | 2 dBi omni-directional dual band antenna, RP-SMA (male plug) |
| Connector for external antennas | 2x RP-SMA female, 500 V insulation  | LED indicator          | PWR1, PWR2, PoE, FAULT, STATE, SIGNAL, WLAN, LAN             |

**MTBF**

|      |                              |                  |
|------|------------------------------|------------------|
| MTBF | According to Standard        | Telcordia SR-332 |
|      | Operating time (hours), min. | 570854 h         |

**Power supply**

|                             |  |      |
|-----------------------------|--|------|
| Reverse polarity protection | Available  |      |
| Supply voltage              | 24 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af) |      |
| Current consumption         | 0.6 A at 12 V DC, 0.15 A at 48 V DC  |      |
| Power consumption           | 7.2 W  |      |
| Connection type             | 1 removable 10-pole 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), 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**

|   |   |                |
|---|---|----------------|
| 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       |
|   | 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, 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)                   | 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)  |                |
| 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 |             |             |