

Industrial Ethernet IE-WL-VL-AP-BR-CL-US

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Industrial Wireless - AccessPoint/Bridge/Client

- Compatible with IEEE 802.11 a/b/g
- Power supply via redundant 24 VDC supply inputs or via Power-over-Ethernet
- Support for Multi-SSID and VLAN
- Turbo-roaming delivers seamless wireless connections
- Integrated DI/DO for on-site monitoring and warning
- Supports QoS (WMM)
- -40 to 75°C operating temperature (T models)

General ordering data

Type	IE-WL-VL-AP-BR-CL-US
Order No.	2536700000
Version	Wireless Access Point/Bridge/Client, IEEE 802.11 a/b/g/n, US-Model, IP30, -25 °C...60 °C
GTIN (EAN)	4050118548716
Qty.	1 pc(s).

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Technical data

Dimensions and weights

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

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 bis 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
Security	EN60950-1, UL60950-1	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	RP-SMA (socket), 500 V insulation
Console port interface	RS-232 (RJ45 connector)	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
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
Reset button	Restoration of factory settings	Standard antenna	2 dBi omni-directional dual band antenna, RP-SMA (male plug)

MTBF

MTBF	570,854 hrs	MTBF	Telcordia SR332
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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
Supply voltage	24 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)	Supply voltage, max	48 V DC
Supply voltage, min.	12 V DC		

Technical data

Housing main material	metal	Protection degree	IP30
Type of mounting	Mounting rail, Panel (with optional mounting kit)		

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)	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)
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
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	eClass 6.2	19-17-01-06
eClass 9.1	19-17-02-06		

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Data sheet**Industrial Ethernet
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Technical data**Approvals**

Approvals



ROHS

Conform

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Conformity[DE PN4800 180516 001](#)

Software

[Firmware - Version 1.9.2](#)

User Documentation

[Hardware Installation Guide](#)