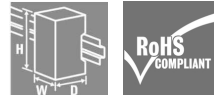


**Industrial Ethernet
IE-WL-AP-BR-CL-ABG-US**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 1429-0
 Fax: +49 5231 14292083
 www.weidmueller.com



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-AP-BR-CL-ABG-US
Order No.	1242110000
Version	Wireless Access Point/Bridge/Client, IEEE 802.11 a/b/g, US Model, IP30, 0 °C...60 °C
GTIN (EAN)	4050118030501
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	53.6 mm	Width (inches)	2.11 inch
Height	135 mm	Height (inches)	5.315 inch
Depth	105 mm	Depth (inches)	4.134 inch
Weight	850 g	Net weight	850 g

EMC conformity and approvals

EMC standards	FCC Part 15B Class B, EN 55022, EN 55024	Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc
Free fall	according to IEC 60068-2-32	Security	EN60950-1, UL60950-1
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		

Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	60 °C
Operating temperature, min.	0 °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)
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
LED indicator	RS-232 (RJ45 connector) PWR1, PWR2, PoE, FAULT, STATE, SIGNAL, CLIENT, BRIDGE, WLAN, 10M, 100M	RJ45 ports	10/100BaseT(X), auto negotiation
Reset button	Restoration of factory settings	Standard antenna	2 dBi omni-directional dual band antenna, RP-SMA (male plug)

MTBF

MTBF	392,209 hrs
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Technical data
Power supply

Connection type	1 removable 10-pole terminal block	Current consumption	0.121 to 0.494 A at 12 to 48V DC, 0.3 A at 24V DC
Input voltage	12 to 48 V DC, redundant dual DC inputs or 48 V DC Power over Ethernet (IEEE 802.3af)	Reverse polarity protection	Available
Supply voltage	12 to 48 V DC, 2 redundant inputs, or 48 V DC Power-over-Ethernet (IEEE 802.3af)		

Technical data

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

Technology

Standard	IEEE 802.11a/b/g/h for Wireless LAN, IEEE 802.11i for Wireless Security, IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(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	Other protocols: proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, PPPoE, DHCP, Access Point-specific protocols: ARP, BOOTP, DHCP, dynamic VLAN tags for 802.1X clients, STP/RSTP (IEEE 802.1D/w)
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Technical data

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 2.462 GHz (11 channels), 5.18 to 5.24 GHz (4 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 11 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	Transmission rate	802.11b: 1, 2, 5.5, 11 MBit/s, 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 MBit/s
Transmit power	802.11b: typically 23±1.5 dBm at 1 to 11 MBit/s, 802.11g: typically 20±1.5 dBm at 6 to 24 MBit/s, 19±1.5 dBm at 36 MBit/s, 18±1.5 dBm at 48 MBit/s, 17±1.5 dBm at 54 MBit/s, 802.11a: typically 18±1.5 dBm at 6 to 24 MBit/s, 16±1.5 dBm at 36 to 48 MBit/s, 15±1.5 dBm at 54 MBit/s	Wireless LAN receive sensitivity	802.11b: -97 dBm at 1 MBit/s, -94 dBm at 2 MBit/s, -92 dBm at 5.5 MBit/s, -90 dBm at 11 MBit/s, 802.11g: -93 dBm at 6 MBit/s, -91 dBm at 9 Mbps, -90 dBm at 12 MBit/s, -88 dBm at 18 MBit/s, -84 dBm at 24 MBit/s, -80 dBm at 36 MBit/s, -76 dBm at 48 MBit/s, -74 dBm at 54 MBit/s, 802.11a: -90 dBm at 6 MBit/s, -89 dBm at 9 MBit/s, -89 dBm at 12 MBit/s, -85 dBm at 18 MBit/s, -83 dBm at 24 MBit/s, -79 dBm at 36 MBit/s, -75 dBm at 48 MBit/s, -74 dBm at 54 MBit/s

Classifications

ETIM 4.0	EC000018	ETIM 5.0	EC000018
ETIM 6.0	EC000816	eClass 6.2	19-17-01-06
eClass 7.1	19-17-01-06	eClass 8.1	19-17-01-06
eClass 9.0	19-17-01-06	eClass 9.1	19-17-02-06

Approvals

Approvals



ROHS Conform

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Technical data**Downloads**

Approval/Certificate/Document of Conformity	DE_PN4800_160418_009.pdf
Brochure/Catalogue	CAT 9 IETH 15/16 EN
Software	SNMP MIB file WLAN Administration Tool Firmware - Version 1.12.10
User Documentation	Release Notes Hardware Installation Guide Manual

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Accessories

Mounting kit for 19" rack assembly

- For assembling DIN rail-based devices on 19" racks



General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
RM-KIT	1241440000	Kit for 19"-rack mounting	4050118029154	1 pc(s).

Configuration module



External module for backing up and restoring the configuration

- Reduced system downtime by simple reconfiguration if equipment is swapped over
- Plug&Play system backup and recovery
- Compact and robust design
- Can be used with all Weidmüller Managed Switches in the Value and PremiumLine as well as the Weidmüller WLAN Access Point

General ordering data

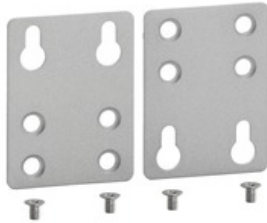
Type	Order No.	Version	GTIN (EAN)	Qty.
EBR-MODULE	1241430000	Configuration module, IP40,	4050118029086	1 pc(s).
RS232		0 °C...60 °C		

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Accessories

Mounting kit for wall mounting



Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet components.

IE-WALLMOUNT-KIT-30MM for use with:

- Industrial Ethernet Switches of the product range **IE-SW-BL05**

IE-WALLMOUNT-KIT-46MM for use with:

- Industrial Ethernet Switches of the product ranges **IE-SW- BL06/BL08/VL05/VL08/VL09/VL16/PL06/PL08/PL09/PL10/PL16/PL18**
- Industrial Ethernet media converters of the product range **IE-MC-VL**
- Industrial Ethernet switches of the product range **IE-WL-AP**

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
IE-WALLMOUNT-KIT-46MM	1504440000	,	4050118312317	1 pc(s).

WLAN antennas and connection cables



- For usage with the Weidmüller WLAN Access Point
- Omni-directional and planar antennas
- For use in the 2.4 GHz and 5 GHz band
- Open-air use possible thanks to the robust design (up to IP68)
- Cable for connecting external antennas to the Weidmüller WLAN Access Point in 2-metre and 4-metre versions

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
IE-ANT-O-BG-360-6-NF	1367090000	Omni-directional antenna, 2.4 GHz band, Gain of 6 dBi, Vertical, 1x N-type female, bottom, IP67, Impedance: 50 Ω	4050118186352	1 pc(s).

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Accessories

IE-ANT-O- AH-360-5-NF	1367120000	Omni-directional antenna, 5 GHz band, Gain of 5 dBi, Vertical, 1x N-type female, bottom, IP64, Impedance: 50 Ω	4050118186345 1 pc(s).
IE-ANT-P- ABG-75-9-NF	1367140000	Directional antenna, Dual Band (2.4 GHz / 5 GHz), Gain of 6 dBi, Vertical, 1x N-type female, bottom, IP67, Impedance: 50 Ω	4050118186338 1 pc(s).
IE-CC-NM- RPSMAM-4M	1367100000	Antenna cable, Connection 1: N-type male, Connection 2: RP-SMA male, Length: 4 m	4050118186369 1 pc(s).
IE-CC-NM- RPSMAM-2M	1367110000	Antenna cable, Connection 1: N-type male, Connection 2: RP-SMA male, Length: 2 m	4050118186376 1 pc(s).
IE-ANT-O- ABG-360-7-NF	1367130000	Omni-directional antenna, Dual Band (2.4 GHz / 5 GHz), Gain of up to 8 dBi at 5 GHz / up to 6 dBi at 2.4 GHz, Vertical, 1x N-type female, bottom, IP68, Impedance: 50 Ω	4050118186321 1 pc(s).

Ethernet (Cat.6)



- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE (acc. to IEEE 802.3af) and PoE+ (acc. to IEEE 802.3at)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
VDATA CAT6	1348590000	Terminal rail fixing, Surge protection, 48 V, 60 V, 1 A, According to IEC61643-21	4050118153002	1 pc(s).