Anybus Wireless Bolt - Ethernet RJ45 PoE - White version

Item number: AWB2031-B

The Anybus Wireless Bolt Ethernet RJ45 PoE - White connects Ethernet-based machines to wireless networks via Bluetooth®, Bluetooth Low Energy, or Wi-Fi. Designed for multi-directional applications, it's ideal for establishing wireless connections with roaming machines, such as AGVs or control cabinets from any angle. PoE support simplifies installation.

Enable wireless industrial communication via Bluetooth or Wi-Fi

Features and benefits

Low total cost of ownership

Thanks to the integrated design of the antenna and communication module, there's no need for additional antenna or accessory purchases.

Designed for multi-directional applications

Ideal for establishing wireless connections to roaming machines, such as AGVs, or to control cabinets from any angle.

Quick start up and high determinism

Ideal for connecting field-level devices that require short start-up times and high determinism.

Supports Industrial Ethernet, TCP, & UDP protocols

Communicates over Industrial Ethernet, supporting protocols such as BACnet/IP, PROFINET, EtherNet/IP, Modbus TCP, as well as all TCP and UDP-based protocols.

Easy to install

Attach the Wireless Bolt directly onto cabinets or machines to look like an integrated part of the installation. Or use the Bolt Base Protector mounting kit to install it on a pole, wall, or similar.

Insights into your network

The Command Line Interface (CLI) provides configuration and diagnostic capabilities, offering greater control and insight into your network.

High-speed, roaming, dual network bridging

Provides fast roaming (IEEE 802.11r) and high link speeds (IEEE 802.11n). Simultaneous Bluetooth and Wireless LAN operation allows bridging between the two networks for enhanced connectivity.

Easy access to data

Wirelessly connect to the Anybus Bolt and easily access the machine or cabinet. Configure the PLC or machine without halting or hindering production.

All-in-one wireless communication

All-in-one package featuring a connector, communication processor, and integrated antenna in the same unit. Use a single cable for both power and communication with Power over Ethernet (PoE).

Industrial design

Withstands harsh environments due to its IP66/67-rated enclosure and wide operating temperature range. Choose the white top Sunbolt option for 30% better protection against higher temperatures.

Easy to configure

Establish a wireless connection in seconds thanks to the intuitive web-based interface.

Perfect together!

Fully compatible with Anybus Wireless Bridge, a wireless product designed for point-to-point applications, enabling you to implement comprehensive wireless infrastructure.

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General

Net Weight (g)	85
Net Dimensions (mm)	68 x 75 (Ø X H) Height above mounting surface: 42.
Packed Width (mm)	13
Packed Height (mm)	8
Packed Depth (mm)	12
Packed Weight (g)	185
Operating Temperature °C Min	-40
Operating Temperature °C Max	65
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Power Consumption (W)	1.7
Input Voltage (V)	19-36
Power over Ethernet (PoE)	37-57 V
Power Connector	3-pole
Reverse Polarity Protection	Yes
Housing Materials	Plastic
Packaging Material	Cardboard

Identification and Status

Product ID	AWB2031-B
Model Code	AWB2BA

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Identification and Status

Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A992.c

Physical Features

Connectors / Input / Output	RJ45, 3-pole screw connection
Contains Battery	No

Wi-Fi Features

Operation Mode	Access Point, Client
RF Output Power	18 dBm EIRP (including antenna gain 3dBi)
Max No. Of Connections, Access Point	7
Security	WPA2 Personal; WPA2 Enterprise

Bluetooth Features

Operation Mode	Access Point, Client
Max No. Of Connections	7
Bluetooth Version	Classic Bluetooth v2.1

Bluetooth Low Energy Features

Operation Mode (LE)	Access Point, Client
RF Output Power (LE)	14 dBm EIRP (including max antenna gain 3 dBi)
Max No. Of Connections (LE)	7
Bluetooth Version (LE)	Bluetooth v4.0

Certifications and Standards

Protection Class IP	IP66, IP67
CE	Yes

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Certifications and Standards

FCC	Yes
IC	Yes
UL	Yes
ATEX	Yes
Vibration and Shock	Sinosodial vibration test according to IEC 60068-2-6:2007 and with extra severities; Number of axes: 3 mutually perpendicular (X:Y:Z), Duration: 10 sweep cycles in each axes, Velocity: 1 oct/min, Mode: in operation, Frequency: 5-500 Hz, Displacement ±3.5 mm, Acceleration: 2g. Shock test according to IEC 60068-2-27:2008 and with extra severities; Wave shape: half sine, Number of shocks: ±3 in each axes, Mode: In operation, Axes ± X,Y,Z, Acceleration: 30 m/s2 , Duration: 11 ms.
Environment	EN 61000-6-2:2019 EN 61000-4-2:2009 EN 61000-4-3:2006 + A1:2008 + A2:2010 EN 61000-4-4:2012 EN 61000-4-5:2014 EN 61000-4-6:2014 EN 61000-6-4:2019 EN 55016-2-3:2017 EN 55032:2015 EN 301 489-1 V2.2.3 EN 301 489-17 V3.1.1
WEEE Category	IT and telecommunications equipment