

Anybus Wireless Bolt II - Americas

Item number: AWB6001-A

The Anybus Wireless Bolt II - Americas, a robust Wi-Fi 5 access point and client, provides reliable wireless connectivity in tough industrial environments. With support for WDS, it bridges industrial Ethernet protocols. Its ability to transfer high data rates makes it ideal for connecting machines (such as AGVs) to Control and SCADA levels.



Enable wireless industrial communication via Wi-Fi 5

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.
- ✓ **Perfect for AGVs**
Ideal for establishing wireless connections to roaming machines, such as AGVs, or to control cabinets from any angle.
- ✓ **All-in-one wireless communication**
All-in-one package featuring a connector, communication processor, and integrated dual-band antenna in the same unit.
- ✓ **Fast data transfer**
Utilizes Wi-Fi 5 technology (802.11ac) to enable faster and more efficient data transfer by making better use of the 5GHz frequency band.
- ✓ **Easy to configure**
Establish a wireless connection in seconds thanks to the intuitive web-based interface.
- ✓ **Enhanced Security Measures**
Ensures secure configurations through HTTPS and utilizes the latest WPA3 Wi-Fi encryption for enhanced network protection.
- ✓ **Transparent network extension**
Supports Wireless Distribution System (WDS), enabling transparent extension of industrial Ethernet networks, e.g., PROFINET, Modbus TCP, EtherNet/IP.
- ✓ **Easy access to data**
Wirelessly connect to the Anybus Bolt II and easily access the machine or cabinet. Configure the PLC or machine without halting or hindering production.
- ✓ **Perfect together!**
Fully compatible with the Anybus Wireless Bridge, a wireless product designed for point-to-point applications, enabling you to implement comprehensive wireless infrastructure.
- ✓ **Easy to install**
Attach the Wireless Bolt II 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.
- ✓ **Streamlined Power & Communication**
Use a single cable for both power and communication with PoE (Power over Ethernet).



General

Related Accessories	024709-B,024708-B
Net Weight (g)	324
Net Dimensions (mm)	113 x 59 x 113 mm (W x H x D) Height above mounting surface: 42 mm.
Packed Weight (g)	384
Operating Temperature °C Min	-25
Operating Temperature °C Max	65
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Power Consumption (W)	2.5
Input Voltage (V)	10-33
Power over Ethernet (PoE)	37-57 V
Power Connector	3-pole
Reverse Polarity Protection	Yes
Housing Materials	Plastic, Aluminium
Packaging Material	Cardboard

Identification and Status

Product ID	AWB6001-A
Model Code	AWB6BA
Export Control Classification Number (ECCN) (Applies only to the U.S)	5A992.c

Physical Features

Connectors / Input / Output	RJ45, 3-pole push-in spring connection
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Physical Features

Contains Battery	No
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Wi-Fi Features

Operation Mode	Access Point, Client
Max No. Of Connections, Access Point	50
Security	WPA2 Personal; WPA2 Enterprise; WPA3 Personal; WPA3 Enterprise
Net Data Throughput	70 Mbps

Certifications and Standards

Protection Class IP	IP66
Product Certifications	CE, UL, FCC, IC
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: 5g. 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 $\pm X,Y,Z$, Acceleration: 30 m/s ² , Duration: 11 ms.
Environment	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 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 + A1:2017 EN 61000-4-6:2014 EN 61000-6-4:2019 EN 55032:2015 + C1:2016
WEEE Category	IT and telecommunications equipment



Use Case



The Anybus Wireless Bolt II is configured as an access point and mounted on a cabinet to allow wireless access between an HMI and the equipment in the cabinet. The Bolt II is powered by a PoE switch inside the cabinet.



A wireless network is extended between two cells by mounting a pair of Anybus Wireless Bolt II set to cable replacement mode on top of the industrial control cabinets. The Bolt II is powered by a PoE switch inside the cabinet.



Use Case



The Anybus Wireless Bolt II can be attached to roaming machines such as AGVs, enabling the machine to connect to various access points throughout the facility. It exchanges information on the best path to ensure the machine reaches its destination efficiently and safely.