

Anybus Wireless Bolt IoT - Black version

Item number: AWB1000-B

The Anybus Wireless Bolt IoT - Black is an industrial-grade router designed to provide low-power, low-bandwidth internet access to both stationary and mobile industrial machines. Utilizing the 4G LTE standards NB-IoT and CAT-M1 and with 2G (GPRS/EDGE) fallback, it can be deployed around the world.



Enables low power, low bandwidth 4G access for remote industrial machines

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.
- ✓ **Compatible with any TCP or UDP-based protocol**
Transparently transfer data across any TCP or UDP-based protocol, including MQTT and OPC UA.
- ✓ **All-in-one wireless communication**
All-in-one package featuring a connector, communication processor, and integrated dual antenna in the same unit. Use a single cable for both power and communication with Power over Ethernet (PoE).
- ✓ **Built-in software**
Includes a firewall, NAT, DHCP server, and GNSS satellite positioning function (GPS, GLONASS, Galileo, and BeiDou).
- ✓ **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.
- ✓ **Efficient power management**
The Ultra-Low Power Mode enables a significant reduction in power consumption. Ideal for battery or solar/wind-powered applications.
- ✓ **Cellular access for top-level machines**
Ideal for providing cellular access to machines on the enterprise or management levels within the automation pyramid.
- ✓ **LTE connectivity with 3G fallback**
Reliable connectivity thanks to LPWA Global 13 band LTE NB-IoT, LTE CAT-M1, and GPRS/EDGE fallback. The Nano SIM card slot allows users to utilize any locally available SIM card supporting LTE Cat-4.
- ✓ **Perfect together!**
Fully compatible with 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 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.

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General

Related Accessories	024709-B,024708-B
Net Weight (g)	94
Net Dimensions (mm)	68 x 75 (Ø X H) Height above mounting surface: 42.
Packed Width (mm)	12
Packed Height (mm)	8
Packed Depth (mm)	13
Packed Weight (g)	225
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)	11-33
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	AWB1000-B
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Identification and Status

Model Code	AWB1BA
Country of Origin	Sweden
HS Code	8517699000
Dual Usage	No

Physical Features

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

Wireless Features

Cellular Dataspeeds	Down: Cat-M1: 300kbps, NB-IoT: 27kbps, 2G/EDGE: 200kbps, Up: Cat-M1: 375kbps, NB-IoT: 65kbps, 2G/EDGE: 200kbps
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Wi-Fi Features

Security	WPA2 Personal; WPA2 Enterprise
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Certifications and Standards

Protection Class IP	IP66, IP67
Product Certifications	CE, FCC, IC, UL, ATEX
Vibration and Shock	Sinusoidal 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 Waveshape: 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 301 489-1:2019 (V2.2.3) EN 301 489-52:2016 (V1.1.0) (Draft) EN 61000-4-2 EN 61000-4-3 + A1 + A2 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 55016-2-3:2017 EN 55032:2015
WEEE Category	IT and telecommunications equipment