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

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
Model Code	AWB1BA

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Identification and Status

Country of Origin	Sweden
HS Code	8517699000
Dual Usage	No
Export Control Classification Number (ECCN)	5A992.c

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

Wi-Fi Features

Security	WPA2 Personal; WPA2 Enterprise

Certifications and Standards

Protection Class IP	IP66, IP67
CE	Yes
FCC	Yes
IC	Yes
UL	Yes
ATEX	Yes
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 ± 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