Anybus Wireless Bolt product.

Anybus Wireless Bolt II

The Anybus Wireless Bolt II is a durable Wi-Fi access point and client designed for industrial environments that demand ruggedness and reliability. Its support for Wireless Distribution System (WDS) allows it to bridge industrial protocols like PROFINET, Modbus TCP, and EtherNet/IP, making it ideal for replacing cables in point-to-point and point-to-multipoint applications.

Thanks to its innovative hole-mounted design, the Bolt can be installed seamlessly on cabinets and equipment, blending in as an integrated part of the installation. The device can be powered via Power over Ethernet or separate power terminals.

The Anybus Wireless Bolt II is engineered to withstand even the most demanding operating conditions, with an extremely robust IP66-rated enclosure and a wide temperature range of -25°C to 65°C, making it suitable for both indoor and outdoor use.

In summary, the Anybus Wireless Bolt II provides reliable wireless communication in tough industrial environments, allowing companies to remove cables and achieve a more flexible and adaptable installation.

Wireless industrial communication

- Utilizes Wi-Fi 5 technology (802.11ac) to enable faster and more efficient data transfer by making better use of the 5GHz frequency band.
- Integrated dual-band MIMO antennas offer excellent coverage.
- WDS support for the transparent extension of Ethernet-based fieldbus networks.

Extremely robust design

- Designed for harsh industrial environments, reducing the need for frequent replacements and maintenance.
- Wide temperature range (-25°C to 65°C) and resistance to exposure to dust and water, making it suitable for use in challenging environments.

Easy installation

- Intuitive user interface allows for quick and easy setup.
- M50 through-hole allows mounting on any flat surface without exposing any wires.
- Use a single cable for both power and communication with PoE (Power over Ethernet).
- Easily integrated into existing systems, saving time and effort compared to installing new cabling or infrastructure.

Security:

- Secure configuration through HTTPS
- Latest generation WPA3 Wi-Fi encryption.

Cell-level network extension

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.

Figure 1 The Wireless Bolt II enables cell-to-cell communication.

Benefits:

- Remove cables
  - Improves flexibility, scalability, and reliability.
  - Reduces installation and maintenance costs.
- Provides galvanic separation.

Wireless HMI

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.

Figure 2 The Wireless Bolt II can be used to provide easy access to control cabinets or machines.

Benefits:

- Easy access to data
- Enhanced safety – access data from a safe distance

Technical Specifications

Operating temperature	-25 to 65°C
Storage temperature	-40 to 85 °C
Host interface.	RJ45 Ethernet 10/100 Mbit/s, PoE (Power over Ethernet)
Humidity compatibility	EN 600068-2-78: Damp heat, 40 °C, 90% (non-condensing).
Vibration compatibility	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 ± X,Y,Z, Acceleration: 30 m/s2 , Duration: 11 ms.
Dimensions	113 x 59 x 113 mm (W x H x D) Height above mounting surface: 42 mm.
Weight	284g
Housing material	Top: Valox 357X(f1) PBT/PC. Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL 746C. Base: Hight strength corrosion resistant EN AW 6082 aluminum
Protection class	Top (outside of host): IP66 / UL Type 4X Base (inside of host): IP30
Mounting	M50 hole (50.5 mm hole diameter needed)
Communication connector	RJ45
Power connector	3-pole push-in spring connection
Power supply	Recommended: 12–24 VDC Reverse voltage protection Min: 10 VDC Max: 33 VDC Max power: 2.5 W
Power over Ethernet (PoE)	IEEE 802.3af/802.3at Type 1 Class 3 Typical: 1.45 W Max: 2.7 W Voltage range: 37-57 V
Power consumption	Typical: 60 mA @ 24 V Max: 110 mA @ 24 V
Wi-Fi standards	802.11 a/b/g/n/ac
Security	WPA, WPA2-Personal, WPA3-Personal
Data speeds	Max net throughput: 70 Mbit/s
Ethernet protocols	Transparent transfer of any Ethernet based protocol, DHCP
Certifications	CE/RED, FCC, PTCRB, UL/cUL (E214107)

File	Version	Size	Read online

Order Codes	EMEA: AWB6000 Americas: AWB6001	
Included Components	Anybus Wireless Bolt II with 3-pin spring loaded power connector. Quickstart Guide, Safety & Compliance sheet.	
Accessories	**024707** - Power Supply 90-264 VAC to 24VDC 19W world socket kit,1.4-meter cable and 3-pole Bolt power connector. **024708** - Bolt base Protector; Read more about the base protector here. **024717** - Passive PoE injector kit. **AWB4006** - Anybus PoE injector 12-57VDC. 30W, dual PoE ports	
Warranty	3 years	