



Producto puente inalámbrico Anybus

Puente inalámbrico Anybus II – Ethernet

Anybus® Wireless Bridge le permite crear una conexión inalámbrica industrial en una red Ethernet industrial. Esta segunda generación del puente inalámbrico probado y confiable puede comunicarse a través de Bluetooth y LAN inalámbrica y es ideal para la comunicación a través de áreas peligrosas o lugares de difícil acceso donde los cables no son deseables. Proporciona un alcance inalámbrico efectivo de hasta 400 metros.



PUENTE TCP/IP ETHERNET

El puente inalámbrico hace posible operar las principales redes Ethernet industriales basadas en TCP/IP, como BACnet/IP, PROFINET, EtherNet/IP y Modbus TCP, a través de Bluetooth y LAN inalámbrica de 2,4/5 GHz.

PUNTO A PUNTO O MULTIPUNTO

El puente inalámbrico Anybus punto a punto o multipunto se utiliza a menudo como reemplazo del cable Ethernet (comunicación punto a punto). Pero también se puede utilizar como punto de acceso para hasta siete clientes de LAN inalámbrica/Bluetooth.

CARACTERÍSTICAS Y BENEFICIOS

- Úselo con instalaciones Ethernet industriales inalámbricas de punto a punto a través de ubicaciones peligrosas o de difícil acceso
- Úselo como punto de acceso para hasta siete clientes
- Apto para AGV's (Vehículo de Guiado Automático)
- Roaming rápido (IEEE 802.11r), alta velocidad de enlace (IEEE 802.11n), robustez (tres antenas internas, incluido MIMO)
- Elimina la necesidad de cableado costoso o que requiere mucho mantenimiento
- Puentes TCP/IP Ethernet y protocolos como: BACnet/IP, EtherNet/IP, Modbus-TCP y PROFINET
- Alcance máximo de hasta 400 metros
- Full compatibility with Anybus Wireless Bolt — a wireless product for machine mounting
- Easy setup via push button or web interface
- Advanced configuration with AT commands
- Compatible with PROFI-safe requirements
- Rugged IP65 rated industrial design
- Security features for a secure industrial operation
- Three built in antennas for higher performance and better robustness
- Operation with Wireless LAN, Bluetooth classic and Bluetooth Low Energy.
- CLI (Command Line Interface) for configuration and diagnostics
- **Starterkit available**

WIRELESS LAN INTERFACE

Wireless standards: WLAN 802.11 a, b, g, n, d.

- Operation modes: Access point or Client
- WiFi channels: 2.4 GHz, channel 1-11 + 12-13 depending on regulatory domain scan.
- 5 GHz Access Point: 36-48 (U-NII-1), 5 GHz Client: 100-116 + 132-140 and 120-128 depending on regulatory domain scan. (U-NII-1, U-NII-2, U-NII-2e).
- RF output power: 18 dBm EIRP (including max antenna gain 3dBi)
- Max number of slaves for access point: 7
- Power consumption: 54mA@24VDC
- Net data throughput: 20 Mbps. Link speed: max 130 Mbps (802.11n 2x2 MIMO)
- Security: WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP.

BLUETOOTH INTERFACE

- Wireless standards (profiles): PAN (PANU & NAP)
- Operation modes: Access point or Client
- RF output power: 14 dBm EIRP (including max antenna gain 3dBi)
- Max number of slaves for access point: 7
- Power consumption: 36 mA@24VDC
- Net data throughput: ~1 Mbps
- Bluetooth version support: Classic Bluetooth v2.1
- Security: Authentication & Authorization, Encryption & Data Protection, Privacy & Confidentiality, NIST Compliant, FIPS Approved

BLUETOOTH LOW ENERGY

- Wireless standards (profiles): GATT
- Operation modes: Central or Peripheral (pending)
- RF output power: 10 dBm EIRP (including max antenna gain 3dBi)
- Max number of simultaneous connections for Central: 7
- Power consumption: 36 mA@24VDC
- Net data throughput: ~200 kbps
- Bluetooth Low Energy version: 4.0 dual-mode
- Security: AES-CCM cryptography

ETHERNET INTERFACE

- Supports Ethernet protocols: IP, TCP, UDP, HTTP, LLDP, ARP, DHCP Client/Server
- Supports wireless bridging of Industrial Ethernet protocols: BACnet/IP, EtherNet/IP, Modbus-TCP, PROFINET
- Ethernet interface: 10/100BASE-T with automatic MDI/MDIX cross-over



CUSTOMER STORY

1080 MOTION: ANYBUS WIRELESS TECHNOLOGY USED FOR ATHLETE TESTING

Anybus Wireless Bridge enables data from 1080 Motion’s neuromuscular testing machines to be transferred wirelessly to a computer for immediate display.

LOOKING FOR CAN TO BLUETOOTH? TAKE A LOOK AT OUR IXXAT® CANBLUE II



CANblue II

Wireless CAN Bridge for Bluetooth - range 200m

→ [Product details](#)

Technical specifications

Wired interface	Ethernet 10/100 Mbit/s
Dimensions (H•W•D)	93 x 68 x 33mm

Wired interface	Ethernet 10/100 Mbit/s	
Weight	120g or 0,26 lbs	
Operating temperature	-30 to +65 °C or -22 to +149 °F (Storage temp: -40 to +85 °C)	
Power supply	9-30 VDC (-5% +20%), Cranking 12V (ISO 7637-2:2011 pulse 4). Reverse polarity protection.	
Power consumption	0.7W idle, 1.7W max	
Enclosure material	Plastic PC/ABS (Bayblend FR3010)	
Mechanical rating	IP65	
Mounting	Two screws (Ø 4 mm) on flat surface. DIN rail mount option available (optional accessory).	
Max range	400 meters	
Configuration	<p>Three different methods:</p> <ul style="list-style-type: none"> • Accessing the built-in web pages in the product • Using Easy Config modes (via push button or inside web interface) • Sending AT commands 	
Connectors	<p>1x M12 for Ethernet (4-pin, D-coded) 1x M12 for Power 5-pin, A-coded) RP-SMA antenna connector for external antenna</p>	
Antennas	<p>AWB3000 Three internal antennas: 1. 2.4 GHz 2. 2,4GHz MIMO 3. 5GHz</p>	<p>AWB3010 One external antenna: 1. 2,4/5GHz dual band</p>
	<p>The external antenna does not provide better range, but allows connectivity if the Wireless Bridge needs to be placed inside a radio-secure environment such as a steel cabinet. When mounting inside a steel cabinet antenna cables with magnetic foot or screw mount should also be considered.</p>	
CERTIFICATIONS		
Europe	<p>ATEX: ATEX Category 3, zone 2 according to EN60079-15, product marking: EX II 3 G nA IIC T4. 2014/53/EU Radio Equipment Directive (RED)</p>	
USA	<p>FCC 47 CFR part 15, subpart B. UL: Ind. Cont. Eq. also Listed Ind. Cont. Eq. for Haz. Loc. CL1, DIV 2, GP A,B,C,D,T4. UL file: E203225</p>	
Canada	ICES 003	
Japan	MIC	
Other countries	<p>Australia, Colombia, Turkey, Malaysia, Peru, Mexico, Argentina. Brazil, India, Philippines, South Africa, Korea.</p>	

Wired interface	Ethernet 10/100 Mbit/s
WLAN Security	WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP.
Bluetooth Security	Authentication & Authorization, Encryption & Data Protection, Privacy & Confidentiality, NIST Compliant, FIPS Approved

File	Version	Size	Read online
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Content of delivery

AWB3000 (WITH INTERNAL ANTENNAS) / AWB3010 (WITH EXTERNAL ANTENNA)

Quick start documentation

Power supply **not** included

Optional Accessories

Order Code: 023040

Accessory Pack – 1.5 meter Ethernet Cable with RJ45 connector and World power supply with 1.5 meter cable and M12 connector.

Order Code: 024700

IP67 M12 connector kit for power and Ethernet, with screw terminals

Order Code: 024701

DIN clip with screws

Order Code: 024702

Replacement external antenna. Foldable, dual band. RPSMA connector

Order Code: 024711

Swivel Mount kit for Anybus Wireless Bridge Including 1x Swivel Mount bracket, 2x slim clamps and 2x mounting screws

1.04.0085.00000

Magnetic antenna foot with 1,5 m cable and RPSMA connector, excl. antenna.

1.04.0085.00003

Screw-mount antenna base with 1,5 m cable and RP-SMA connector, excl. antenna

Wireless bridge complete cable kit

- All you need to make your Ethernet cable go wireless!

Order code: **AWB3003**

2 pcs Anybus Wireless Bridge II (internal antennas)

2 pcs Ethernet cables 2 meters, M12 + open leads

2 pcs "click mount" Ethernet RJ45 connectors

2 pcs Power cables 2 meters M12 + open leads

Wireless bridge starterkit

Order code: **AWB3300**

Two Wireless Bridges with internal antennas,
Two Power Supplies (world), cabling, Quick Start Guide

(Limitation: Max one Starterkit per customer)

Ordering Information

Order code	AWB3000 (WITH INTERNAL ANTENNAS) AWB3010 (WITH EXTERNAL ANTENNAS)
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Quick start documentation, USB configuration cable are included. Configuration software is available for download.
Power supply is **not** included. 3 year guarantee. For purchasing instructions and terms and conditions, see: → [How to buy](#)

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