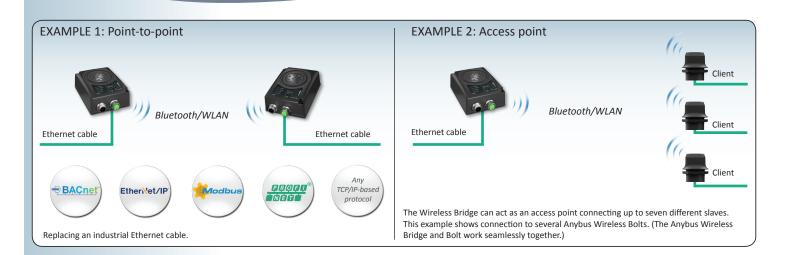


Wireless Bridge II

Anybus Wireless Bridge enables you create a robust wireless connection between two points in an industrial Ethernet network. This second generation of the proven and trusted product can communicate via both Bluetooth and WLAN and is ideal for communication through hazardous areas or hard-to-reach locations where cables are not desirable.





Availability

AWB3000

Ethernet bridge via Bluetooth and WLAN. 2.4 GHz/5 GHz. Internal antenna.

AWB3010

Ethernet bridge via Bluetooth and WLAN. 2.4 GHz/5 GHz. External antenna.

Accessories

023040

Cable kit. 1.5m Ethernet cables M12/RJ45 and power supply (world).

024700

M12 Connector Kit with screw terminals.

024701 DIN Clip kit with screws.

024702

Extra external antenna. Foldable, dual band. RP-SMA connector.

1.04.0085.00000

Magnetic antenna foot with 1,5 m cable and RP-SMA connector, excl. antenna.

1.04.0085.00003

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



HMS provides a full 3 year product guarantee

Wirelessly bridge industrial Ethernet networks

Use the Anybus Wireless Bridge to create a wireless connection in a PROFINET, EtherNet/IP, Modbus-TCP or BACnet/IP network. You can use the same hardware for both Bluetooth or WLAN communication.

Point-to-point or multipoint

Anybus Wireless Bridge is often used as an Ethernet cable replacement (point-to-point communication). But it can also be used as an access point for several WLAN/Bluetooth nodes within range.

Features and benefits

- Range up to 400 meters.
- Rugged design with IP65-classed housing.
- Unique method to handle interference disturbances.
- Easy configuration via push button or via web configuration pages.
- Full compatibility with Anybus Wireless Bolt a wireless product for machine mounting.
- Compatible with PROFIsafe requirements.

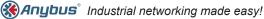
WLAN or Bluetooth?

- Allows higher data throughput.
- Wide market acceptance.
- Wireless LAN client adapter in an infrastructure setup

Bluetooth

- Even more robust and noise immune wireless link since Bluetooth switches between different frequencies.
 AFH (Adaptive Frequency Hopping) automatically avoids noisy channels.
- Preferred physical media for wireless PROFINET (PNO) and approved for PROFIsafe.





www.anybus.com

TECHNICAL **SPECIFICATIONS**

Type of wired interface	Ethernet				
Order code	AWB3000 (with internal antenna) AWB3010 (with external antenna)				
Range	400 meters (WLAN and Bluetooth)				
Antenna	Internal: 2.4 GHz: max 2dBi. 5 GHz: 0.5 max dBi External: Max 3 dBi (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)				
Operating Temperature	-30 to +65 °C (Storage temp: -40 to +85 °C)				
Weight	120 g				
Housing	Plastic PC/ABS (Bayblend FR3010)				
Protection class	IP65				
Dimensions	91 x 66 x 36.2 mm				
Mounting	With two screws (ϕ 4 mm) on flat surface. DIN rail mount option available (optional accessory).				
Connectors	M12 for Ethernet (4-pin, D-coded). M12 for Power (5-pin, A-coded)				
Wireless communication	WLAN or Bluetooth (interchangeable with same hardware)				
Power	9-30 VDC (-5% +20%), Cranking 12V (ISO 7637-2:2011 pulse 4). Reverse polarity protection. (Consumption: 0.7W idle, 1.7W max.)				
Configuration	 Three different methods: Accessing the built-in web pages in the product Using Easy Config modes (via push button or inside web interface) Sending AT commands 				
Vibration compatibility:	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 axis, Velocity: 1 oct/min, Mode: in operation, Frequency: 5-500 Hz. 5-8,4Hz=±3.5mm; 8,4-40,7Hz=1g; 40,7-57Hz=±0,15mm;57-500Hz=2g. Shock test according to IEC 60068-2-27:2008 and with extra severities; Wave shape: half sine, Number of check test according to IEC 60068-2-27:2008 and with extra severities; 0 an (-2, Duration, 14 are				
Uidite. eeneedibilite	shocks: ±3 in each axis, Mode: In operation, Axes ± X,Y,Z, Acceleration: 30 m/s2 , Duration: 11 ms.				
Humidity compatibility:	EN 600068-2-78: Damp heat, +40°C, 93% humidity for 4 days.				
WIRELESS STANDARDS	Wivelage standards WI AN 202 11 a. b. g. c. i. b (n is ponding release)				
	Wireless standards: WLAN 802.11 a, b, g, e, i, h (n in pending release) Operation modes: Access point or Client WiFi channels: 2.4 GHz, channel 1-11.				
WLAN	 5 GHz Access Point: 36-48 (U-NII-1), 5 GHz Client: 36-140 (U-NII-1, U-NII-2A, U-NII-2C). RF output power: 16 dBm Max number of slaves for access point: 7 Power consumption: 54mA@24VDC Net data throughput: ~20 Mbps Security: WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP. 				
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Bluetooth Bluetooth Low Energy	5 GHz Access Point: 36-48 (U-NII-1), 5 GHz Client: 36-140 (U-NII-1, U-NII-2A, U-NII-2C). RF output power: 16 dBm Max number of slaves for access point: 7 Power consumption: 54mA@24VDC Net data throughput: ~20 Mbps Security: WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP. Wireless standards (profiles): PAN (PANU & NAP) Operation modes: Access point or Client RF output power: 10 dBm Max number of slaves for access point: 7 Power consumption: 36 mA@24VDC Net data throughput: ~1 Mbps Bluetooth version support: v4.0 Security: Authentication & Authorization, Encryption & Data Protection, Privacy & Confidentiality, NIST Compliant, FIPS Approved Wireless standards (profiles): GATT Operation modes: Central or Peripheral RF output power: 7 dBm Max number of slaves for Central: 7 Power consumption: 36 mA@24VDC Net data throughput: ~200 kbps Bluetooth version support: v4.0				
Bluetooth Bluetooth Low Energy (Pending release)	5 GHz Access Point: 36-48 (U-NII-1), 5 GHz Client: 36-140 (U-NII-1, U-NII-2A, U-NII-2C). RF output power: 16 dBm Max number of slaves for access point: 7 Power consumption: 54mA@24VDC Net data throughput: ~20 Mbps Security: WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP. Wireless standards (profiles): PAN (PANU & NAP) Operation modes: Access point or Client RF output power: 10 dBm Max number of slaves for access point: 7 Power consumption: 36 mA@24VDC Net data throughput: ~1 Mbps Bluetooth version support: v4.0 Security: Authentication & Authorization, Encryption & Data Protection, Privacy & Confidentiality, NIST Compliant, FIPS Approved Wireless standards (profiles): GATT Operation modes: Central or Peripheral RF output power: 7 dBm Max number of slaves for Central: 7 Power consumption: 36 mA@24VDC Net data throughput: ~200 kbps Bluetooth version support: v4.0				
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HMS

Anybus Wi	reless Bridge			
System Overview	General LAN 1	NLAN Bluetoo	th	
Network Settings WUAK Settings Blastaath Settings Ineware Update AE Commands	Finnuare Passinood Confirm Passinood Raad Cursers Sattings Wite Current Sattings		Engls See Processed Hand AT Write AB	

Configuration You can configure the Anybus Wireless Bridge by accessing the built-in web pages in the product. You can also use the push-button. Pressing sequences will configure the product. Instructions included.



Order a Starter Kit! Includes: Two Wireless Bridges, Two Power Supplies (world), cabling, Quick Start Guide. Part number: AWB3300

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