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BHP Industry Solution

PROFINET®

EtherCAT®

EtherNet/IP

CC-Link

Modbus

PROFIBUS

CANopen

HMS Connecting Devices™



Now with ...
OPC UA



DeviceNet

WiFi



司騰達股份有限公司

HMS 台灣總代理 – Remote Access 跨國遠端連線與自動化工業的最佳選擇

司騰達公司致力於推廣數位化工廠和 IIoT 工業物聯網的解決方案，並與歐洲最先進的公司 – HMS 集團合作，同時透過引進更多歐美的技術能量，提供客戶關於工業 4.0 的顧問諮詢服務，並將教育與產業連結，協助台灣產業逐步完成從現場設備、生產資訊、通訊 IoT 的垂直整合，並整合 M2M 工業總線與軟體開發，從而實現數位化工廠與自動化機械領域的創新。



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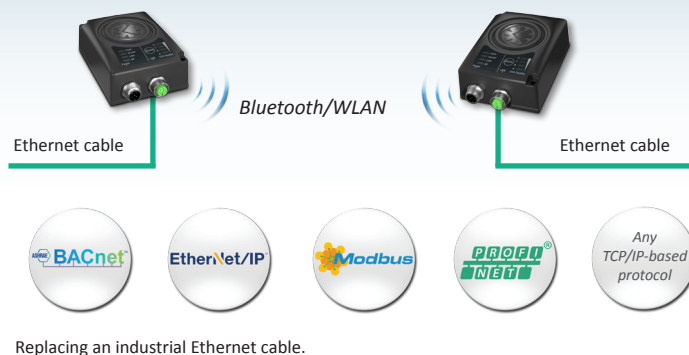
www.bhp.com.tw

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.



EXAMPLE 1: Point-to-point



EXAMPLE 2: Access point



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 PROFI-safe requirements.


WLAN or Bluetooth?



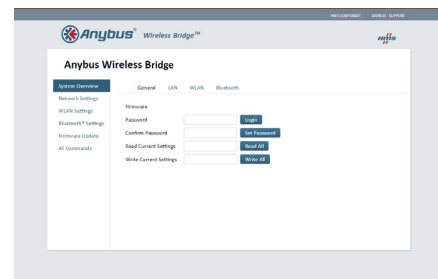
- Allows higher data throughput.
- Wide market acceptance.
- Wireless LAN client adapter in an infrastructure setup

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 PROFI-safe.

<div> <div>TECHNICAL SPECIFICATIONS</div>  </div>	
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 <i>(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)</i>
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 (Ø 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: <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
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 shocks: ±3 in each axis, Mode: In operation, Axes ± X,Y,Z, Acceleration: 30 m/s ² , Duration: 11 ms.
Humidity compatibility:	EN 600068-2-78: Damp heat, +40°C, 93% humidity for 4 days.
WIRELESS STANDARDS	
WLAN	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. 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.
Bluetooth	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
Bluetooth Low Energy (Pending release)	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 Security: AES-CCM cryptography
CERTIFICATIONS	
Europe	1999/5/EC, Radio and Telecommunication Terminal Equipment (R&TTE), EN 300 328 V1.9.1 (2015-02), EN 301 893 V1.8.1 (2015-09). ATEX (Pending): ATEX/IECEX Category 3, zone 2 according to EN 60079-0 and EN 60079-7.
U.S.	FCC 47 CFR part 15, subpart B. UL OrdLoc: NQAQ-Programmable Controllers according to UL61010-2-201 and NQAQ7-Process control equipment according to CSA61010-2-201, UL file E214107. UL HazLoc: NQAQ-Programmable Controllers according to USL ANSI/ISA-12.12.01 (class 1 Div. 2) and CNL C22.2, Nos. 213-M1987, UL file E203225. (Pending)
Canada	ICES-003
Japan	MIC (pending, pre-certified radio module)
Taiwan	NCC (pending, pre-certified radio module)
South Korea (pending)	KCC (pending, pre-certified radio module)

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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

司騰達股份有限公司

自動化工業與跨國遠端連線的最佳選擇

Ewon Flexy205

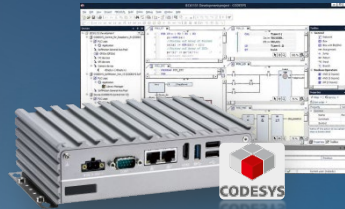
VPN+IOT 物聯網模組



Anybus X-Gateway



CODESYS SoftPLC



Jmobile Runtime IPC



I4-SCADA IPC



工業 4.0 數位工廠與 工業物聯網解決方案

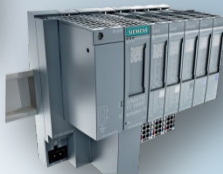
SIEMENS PLC

S7-1200



SIEMENS PLC

ET 200SP IO



SIEMENS PLC

S7-1500



SIEMENS HMI



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