



司騰達股份有限公司
BHP Industry Solution



EtherNet/IP

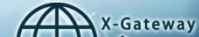
CC-Link



CANopen



Now with ...
CPC UA



DeviceNet



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。

LINE



官網



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Anybus Wireless Bolt product.

Anybus Wireless Bolt - Ethernet RJ45 PoE



Anybus Wireless Bolt enables you to connect industrial machines and devices to a wireless network. It is attached onto a cabinet or a machine to enable wireless access over Bluetooth®, Bluetooth Low Energy® or Wireless LAN (WiFi).

On the wired side, the Anybus Wireless Bolt communicates over Industrial Ethernet, supporting protocols such as BACnet/IP, PROFINET, EtherNet/IP, Modbus TCP as well as all TCP and UDP based protocols.

CONFIGURE MACHINES WIRELESSLY

Anybus Wireless Bolt gives you direct access to configure or troubleshoot your machinery. With a range of 100 meters you can access the internal web pages via a laptop, tablet or smartphone. BYOD (Bring Your Own Device) means that you no longer need an expensive HMI. A machine operator or technician does not need to be physically located at the machine to gain access.

AN ALL-IN-ONE SOLUTION

With Anybus Wireless Bolt you get an All-in-one package featuring, connector, communication processor and integrated antenna in the same unit, with an exterior IP67 protection class.

FEATURES AND BENEFITS

- Configure or troubleshoot industrial machinery over a wireless network
- Increase flexibility and mobility. Eliminate expensive fixed HMI's by using a laptop, tablet or smartphone
- Connect to moving field equipment such as AGV's (Automated Guided Vehicles)
- Fast Roaming (IEEE 802.11r), High link speed (IEEE 802.11n)
- Full compatibility with Anybus Wireless Bridge — a wireless product for cable replacement
- Connect to a Cloud Service of your choice or get live data and integrate it into a SCADA system
- Supports Ethernet and protocols such as: BACnet/IP, EtherNet/IP, Modbus-TCP, PROFINET, TCP/UDP
- Simultaneous operation of Bluetooth and Wireless LAN allowing for bridging between the two networks
- Security features for a secure industrial operation
- Dual power supply, PoE (Power over Ethernet) and/or 3-pole 19-36VDC connector
- Available with white top Sunbolt enabling 30% higher surrounding temperature compared to black in direct sunlight.
- Operation with Wireless LAN, Bluetooth classic and Bluetooth Low Energy.
- CLI (Command Line Interface) for configuration and diagnostics

WIRELESS LAN INTERFACE

- Wireless standards: WLAN 802.11 a, b, g, n, d.
- Operation modes: Access point or Client

- Wireless LAN bands: 2.4GHz and 5GHz
- RF output power: 18 dBm EIRP (including antenna gain 3dBi)
- Max number of slaves for access point: 7
- Power consumption: 54mA@24VDC
- Net data throughput: 20 Mbps. Link speed: max 65 Mbps (802.11n SISO)
- Security: WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP including MS-CHAP.

BLUETOOTH INTERFACE

- Wireless standards (profiles): PANU & NAP
- Operation modes: Access point or Client
- RF output power: 14 dBm EIRP (including antenna gain 3dBi)
- Bluetooth conducted sensitivity: -90 dBm
- 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 INTERFACE

- Wireless standards (profiles): GATT
- Operation modes: Central or Peripheral (pending)
- RF output power: 10 dBm EIRP (including 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
- Layer 2 bridging mode between Anybus Wireless Bolts or Bridges, Otherwise Layer 3 TCP/UDP bridging

Technical specifications

Dimensions	Diameter: 68 mm. Height: 75 mm without PS-connector, 84 mm incl. PS-connector. Outside height: 41 mm.
Weight	84g
Temperature Bolt (black)	Shadow: -40 to +65 °C Direct sunlight: -40 to +45 °C Storage temperature: -40 to +85 °C
Temperature Sunbolt (white)	Shadow and direct sunlight: -40 to +65 °C Storage temperature: -40 to +85 °C
Output Power	Wireless LAN 18 dBm EIRP - Bluetooth 14 dBm EIRP - Bluetooth Low Energy 10 dBm EIRP All including antenna gain 3dBi
Power supply	19-36 VDC and/or PoE DTE Type1 according to IEEE 802.3af

Power consumption	0.7W idle, 1.7W max (54mA@24VDC with Wireless LAN and 36mA@24VDC with Bluetooth)
Enclosure 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 476C. Bottom: Celanex: XFR 6840 GF15. PBT glass reinforced plastic
Mechanical rating	IP66 and IP67 for top (outside the host), IP21 for bottom (inside the host)
Mounting	M50 screw and nut (50.5 mm hole needed)
Antenna	One internal antenna. Dual-band 2,4GHz and 5GHz.
Connector	RJ45 Ethernet/PoE and 3 pole screw connector for power
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: 2g. 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 $\pm X,Y,Z$, Acceleration: 30 m/s ² , Duration: 11 ms.
CERTIFICATIONS	
Europe	ATEX Category 3, zone 2 according to EN60079-15, product marking: EX II 3 G nA IIC T4 Gc. CE, 2014/53/EU Radio Equipment Directive (RED)
USA	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
Canada	ICES-003
Japan	MIC
Other countries	Brazil, Australia, Colombia, Turkey, Malaysia, Argentina, India, China, Korea, United Kingdom, Russia

File	Version	Size	Read online
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Content of delivery

AWB2030 Bolt RJ45 PoE (black top) / AWB 2031 Sunbolt RJ45 PoE (white top)
Quick start documentation

Optional Accessories

AWB4005: PoE Injector 100-240 VAC

AWB4006: PoE Injector 12-57 VDC

024707: Power Supply 90-264 VAC to 24VDC 19W world socket kit, 1,4 meter cable and 3-pole Bolt power connector (**Only** for Bolt RJ45 PoE)

024708 - Bolt base Protector;

024709 - Bolt base Protector and Mounting Bracket kit

024715 - Replacement Power plugs for Anybus Wireless Bolt, bag with 5pcs, 3-pin with screw terminals and screw fastening, symbols +-PE

AWB2330 (BOLT RJ45 STARTERKIT)

2 x Wireless Bolts RJ45 (AWB2030), 2 x Power Supply (world), power cables, Quick Start Guide.
3 year guarantee.

(Limitation: Max one Starterkit per customer)

Ordering Information

Order code	AWB2030 (Bolt RJ45 PoE) AWB2031 (Sunbolt RJ45 PoE)
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3 year guarantee.

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

Ewon Cosy131

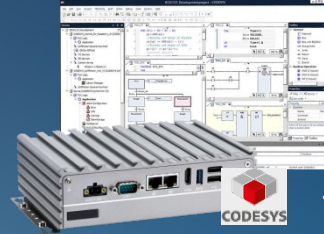
VPN 遠端連線



Anybus X-Gateway



CODESYS SoftPLC



Jmobile HMI/SCADA IPC



工業 4.0 數位工廠與 工業物聯網解決方案

i4-SCADA IPC



WAGO750 RemoteIO

EtherCAT
PROFINET



SIEMENS ET 200SP
PROFINET Remote IO



SDP 系列
EtherCAT 伺服馬達



eSMART Web HMI
Esmart04/07/10

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