Wireless Bridge

- WLAN 2.4 GHz/5GHz access point or client
- Bluetooth 4.0 access point or client
- Range up to 400m
- Bluetooth Low Energy Central or Peripheral (GATT profile)
- Choice of integrated or external antenna
- Digital input for controlling WLAN roaming, for example
- Configuration via web server, Easy-Config button or AT commands
- IP65 protection class

https://www.wachendorff-prozesstechnik.de/en/wbr3000

Description

The wireless bridge allows you to establish a reliable wireless connection between two or more points in your industrial Ethernet network.

The devices are ideal for harsh environments to communicate via WLAN and Bluetooth where cables are not an option. Ranges of up to 400m can be realized. The unique method of handling interference makes Bluetooth the ideal wireless technology for industry, while WLAN 2.4 GHz and 5 GHz offer high bandwidths and very high connectivity and can be integrated into existing networks. Simultaneous operation of WLAN and Bluetooth is possible.

Suitable for industrial Ethernet protocols such as Profinet, Ethernet/IP and ModbusTCP.

With the new Bluetooth Low Energy standard, applications can be realized in which Bluetooth Low Energy tags (e.g. sensors) are read out for access control or measurement data acquisition, for example. Simple configuration via Easy-Config-Button or the integrated web server

Product details

WLAN:	IEEE 802.11a, b, g, n, d Operating modes: Access point or client 2.4 GHz channels: 1-11 + 12-13 (depending on country) 5 GHz channels: 36-48 (U-NII-1), 5 GHz client: 100-116 + 132-140 and 120-128 (country-dependent, U-NII-1, U-NII-2, U-NII-2e) Maximum number of clients for access point: 7 Net data throughput: >20 Mbit/s RF output power: 18dBm EIRP Max. Net data throughput: 20 Mbit/s, Link speed: max. 130 Mbit/s (802.11n 2x2 MIMO)
WLAN security:	WEP 64/128, WPA, WPA-PSK and WPA2, TKIP and AES/CCMP, LEAP, PEAP
Bluetooth	Supported profiles: PANU & NAP Operating modes: Access point or client Maximum number of clients for access point: 7 Net data throughput: ~1Mbit/s RF output power: 14dBm EIRP

Bluetooth security:	Authentication & Authorization, Encryption & Data protection, Privacy & Confidentiality, NIST Compliant, FIPS Approved
Antenna:	Optional: Integrated with WWBR3000: 2.4GHz: max. 2dBi, 5GHz: max 0.5dBi External with WWB3010: max. 3dBi
Ethernet:	M12 4-pin D-coded 10/100BASE-T with automatic MDI/MDIX auto-crossover detection.
Supported protocols:	IP, TCP, UDP, HTTP, LLDP, ARP, DHCP client/server, DNS support. PROFINET IO, EtherNet/IP, Modbus-TCP. BACnet/IP
Configuration:	via internal web server, AT commands, EasyConfigMode button
Power supply:	M12 5-pin A-coded 9-30 VDC (-5% +20%), reverse polarity protection, power consumption: 0.7 W in idle state, 1.7 W max.
Protection class:	IP65
Ambient conditions:	Operating temperature: -30 °C to +65 °C Storage temperature: -40 °C to +85 °C Relative humidity according to EN 600068-2-78
Dimension DxHxW (mm):	33 x 93 x 68
Assembly:	Surface mounting with two 4 mm screw holes. Profile rail mounting optional.
Weight:	120g

Certifications:	Europe: 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) 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, UL & cUL Class 1 Div 2 (pending) Canada: ICES 003 Japan: MIC
Manufacturer:	HMS Industrial Networks AB

Products Order no.	
WWBR3000	Wireless bridge with internal antenna
WWBR3010	Wireless bridge with external antenna
WWBR3300	Wireless bridge starter kit (2x bridge, 2x cable set)