

# Quick Setup Guide

## Anybus Wireless Bridge – Ethernet to WLAN (Dual Band, 2.4 GHz & 5 GHz)



## Document History

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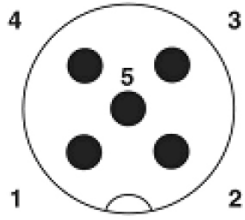
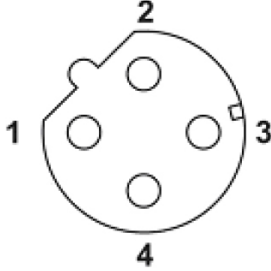
## Information about the Anybus Wireless Bridge – Ethernet to WLAN (Dual Band, 2.4 GHz & 5 GHz) and other products

For further information about Anybus products, please see [www.anybus.com](http://www.anybus.com), where the latest manuals, etc., can be downloaded.

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# 1 Installation

Power connector	Ethernet connector
<p>The power connector has a supply power input and a digital input with separate ground. The power supply input and the digital input both support voltages of 9-30V. The connector is an A-coded male M12.</p>  <ol style="list-style-type: none"> <li>1. V in + (9-30V)</li> <li>2. Digital Input Ground</li> <li>3. V in Ground</li> <li>4. Digital Input + (9-30V)</li> <li>5. N/C (May be used for shield ground)</li> </ol>	<p>The Ethernet interface supports 10/100 Mbps with both MDI/MDI-X auto crossover and polarity correction. The connector is a D-coded female M12.</p>  <ol style="list-style-type: none"> <li>1. Transmit +</li> <li>2. Receive +</li> <li>3. Transmit -</li> <li>4. Receive -</li> </ol>

## 1.1 Status indicators

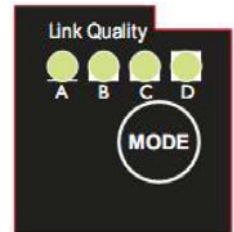


Description	Color	Status	Meaning
PWR	Green	On	Supply voltage is present and application is running
PWR	Green	Off	Supply voltage is not present, or no application is running
)))	Blue/Purple/Red	Blue	A WLAN connection has been established
)))	Blue/Purple/Red	Flashing Blue	WLAN data activity
)))	Blue/Purple/Red	Purple	Attempt to establish a connection to another WLAN device
)))	Blue/Purple/Red	Red	Error
)))	Blue/Purple/Red	Off	No WLAN activity
LAN	Yellow	On	Ethernet link is present
LAN	Yellow	Flashing	Ethernet data activity
LAN	Yellow	Off	No Ethernet connection

## 2 Configuration

### 2.1 Interfaces

The Anybus Wireless Bridge has several configuration interfaces, although this guide only covers how to set up a Layer-2 transparent connection between 2 Wireless Bridges using the SMART configuration mode. For other configuration options, please see the product guide for "Anybus Wireless Bridge – Ethernet to WLAN", available at [www.anybus.com](http://www.anybus.com).



### 2.2 SMART Configuration Mode

If the **MODE** button is pressed within 5 seconds of powering up, the Wireless Bridge will enter SMART configuration mode. The LEDs above the button (A, B, C and D) will show the mode currently selected. When the required mode is selected, confirm this by holding in the SMART button for two seconds. During the connection attempt, the LED's representing the selected mode will flash. When a connection has been established, the device will restart and resume operation.

There are 12 different modes available:

MODE	DESCRIPTION	LED			
		A	B	C	D
1	Enable DHCP server	A			
2	Reset to factory defaults. This will reset the entire configuration to the factory default.		B		
3	Reset IP settings. This resets only the IP settings to the factory defaults.	A	B		
4	Wait for automatic configuration, ad hoc mode.			C	
5	Initiate automatic configuration, ad hoc mode.	A		C	
6	Wait for automatic configuration with PROFINET optimizations, ad hoc mode.		B	C	
7	Initiate automatic configuration with PROFINET optimizations, ad hoc mode.	A	B	C	
8	Wait for automatic configuration, managed mode.				D
9	Initiate automatic configuration, managed mode.	A			D
10	Initiate automatic configuration, managed mode, wired.		B		D
11	Configure external wireless.	A	B		D
12	Initiate automatic configuration, ad hoc mode, multipoint.			C	D
13	Reserved for future use.	A		C	D
14	Reserved for future use.		B	C	D
15	Reserved for future use.	A	B	C	D

## 2.3 **Setting up an Ethernet bridge (Cable replacement mode)**

This mode is used to transfer data between two Ethernet segments (Layer-2 transparent).

1. Power on the first device and enter SMART configuration mode 4.
2. Power on the second device and enter SMART configuration mode 5.
3. Wait for the devices to connect and restart.
4. The first device will now have the IP address 192.168.0.98, and the second will have 192.168.0.99. The devices will operate in ad hoc mode.

For other use cases, see the product guide for "Anybus Wireless Bridge – Ethernet to WLAN".

## 3 **Safety and Warnings**

This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D, OR non-hazardous locations only. The combinations of equipment in your own system will be subject to investigation by the local Authority Having Jurisdiction at the time of installation.



### **WARNING - EXPLOSION HAZARD!**

- Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous
- Substitution of any components may impair the suitability for Class I, Division 2.

### 3.1 **Restrictions**

- Wiring terminals must be marked to indicate proper connections for the input power, output power, and control circuits.
- Field wiring terminals may use copper conductors only, wire size AWG 14, minimum temperature rating 60°C.
- This equipment is suitable for use in an ambient temperature of max 65°C.