


Wi-Fi CAN BRIDGE *Limited Edition*

Overview



WCB-LE (Wi-Fi CAN Bridge - Limited Edition)

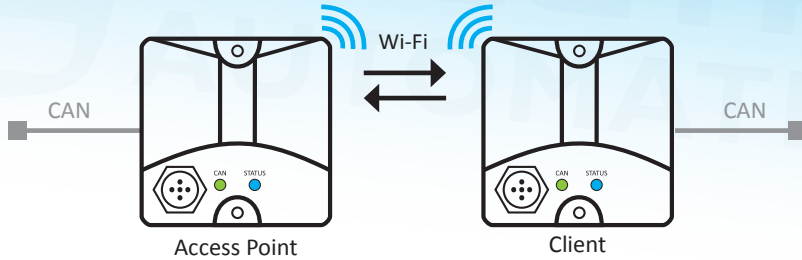
implements wireless CAN communication over Wi-Fi 802.11b/g. Designed for use in vehicles and mobile machinery. Possible to configure as an Wireless Access Point or a Wireless Client.

 The WCB module is designed to work as a CAN bridge, in contexts where cable connections are disadvantageous or impossible. It is not designed for use as a bridge for wireless steering/control. This is mainly out of safety reasons, due to the nature of Wi-Fi network devices possible down-time caused by signal interference or re-connection procedures.

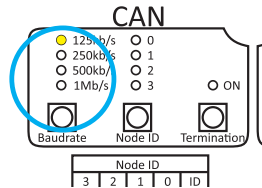
Content

1. Create a CAN bridge
2. Technical specifications
3. WCB module overview

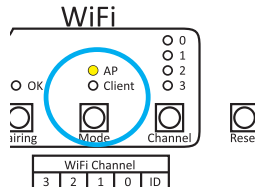
1. Create a CAN bridge



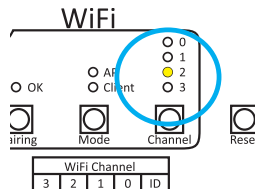
1. First ensure that your WCB-LE is using the correct CAN baudrate (125, 250, 500 or 1000kbit/s). Press Baudrate to switch to your desired baudrate. The LED will indicate your selection.



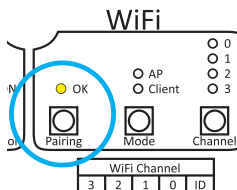
2. Then you need to configure one WCB module as an Access point (AP) and the other as a Client. Press Mode on the Wi-Fi panel to switch to desired state (AP or Client).



3. Make sure both modules are running on the same Wi-Fi channel (channel 2 by default).



4. Press Pairing on both modules (time and order not important). Pairing LED will now start to blink and eventually turn to a permanent ON state when they are successfully paired.



For more detailed information, please download full product sheet at www.electrumab.se/produkter



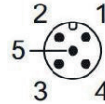
Electrical characteristics

Parameter	Condition	Min.	Typ.	Max.	Unit
Operational voltage ⁽¹⁾		9		32	V _{DC}
Power consumption ⁽¹⁾	32V < V _{IN} > 9V	1	1.3	1.6	W
CAN termination	CAN _{termination} = On	118	121	132	Ω
Operating temperature		-40		85	°C

Note: 1. Module fully operational

Connector

5 pole M12 Male connector	
1	GND
2	9..32V _{DC}
3	GND
4	CAN _H
5	CAN _L
SHIELD	GND



CAN format: CAN 2.0A and CAN 2.0B
 CAN baud: up to 1Mbit/s

Dimensions: 80x72x26mm
 Mounting: Two Ø 4.5mm holes

For more detailed information, please download full product sheet at www.electrumab.se/produkter



3. WCB module overview

Front

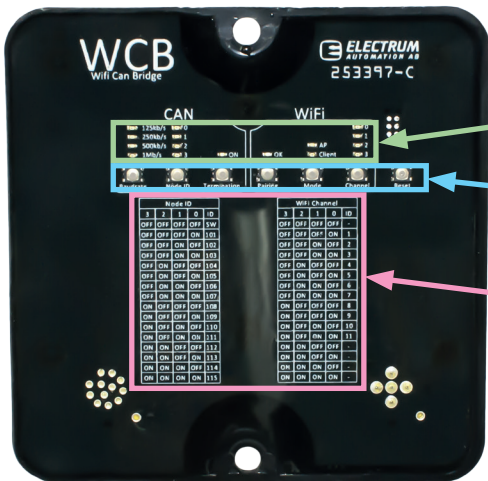


Sticker with information about serial, date, part no, WCB ID, WPA2-PSK passphrase.

Digital 5 pole M12 male connector

Bicolored LED indicators for CAN status (green) and Wi-Fi status (blue).

Back



CAN and Wi-Fi status panels

LED indicators

Buttons Use a round shape object and press gently.

Node ID and Wi-Fi channel tables



Warning! Using sharp objects to push the buttons can cause permanent damage to the protective molding.

For more detailed information, please download full product sheet at www.electrumab.se/produkter



www.electrumab.se

Innovation partner