Features

- Rugged CAN-to-WiFi module
- Designed for 12V and 24V agricultural and heavy vehicle equipment
- Fully potted housing
- Deutsch DTM series connector
- 1 CAN port , ISO 11898-2 and 5
- 1 key input (K50)
- 1 analogue 0-10V output
- All I/O protected to short circuit to power rails (Vbat and GND)

Applications

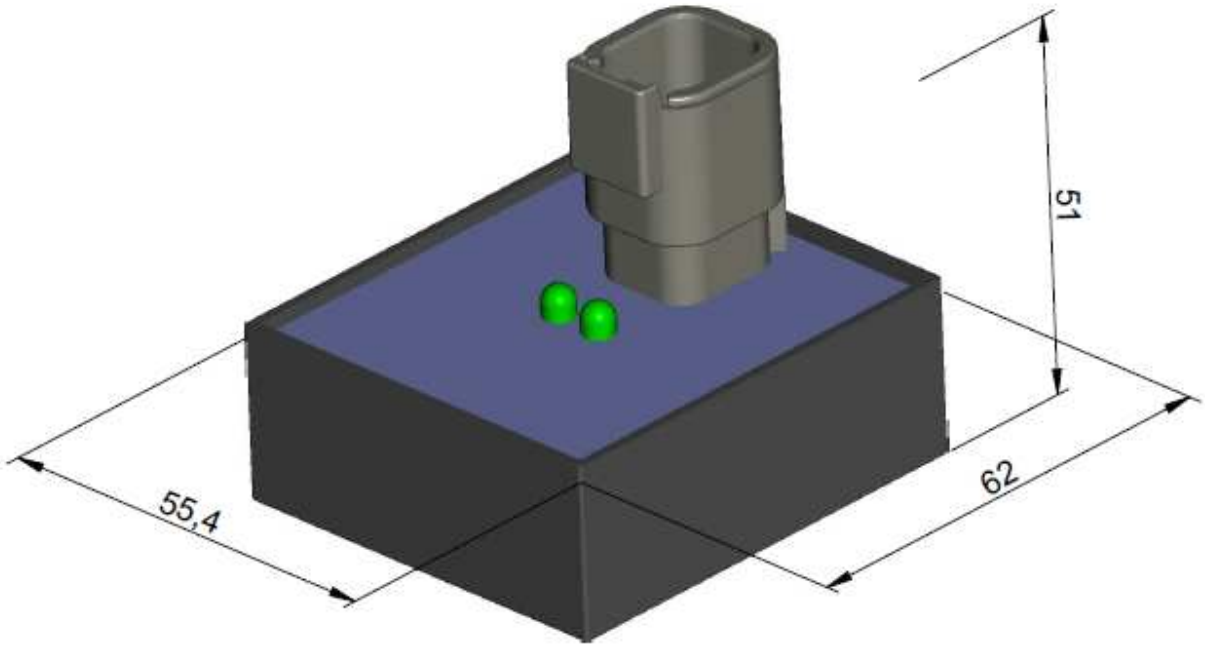
The PCS W1 AP is a rugged CAN-to-WiFi module, suitable to be used in harsh environments such as agricultural and heavy vehicle applications. The device works in Access Point (AP) mode, creating a dedicated WiFi to which a mobile device can connect in order to interact with the CAN bus.

The unit can also work in Station mode (STA), and can connect to an existing WiFi network, e.g. to perform Over-the-Air software updates.

Typical applications are:

- CAN-to-WiFi bridge
- Allow to add to legacy CAN based application a WiFi access for set-up/monitoring

Overall Dimensions



Dimensions in mm.

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Environmental Specifications

Operational Temperature:	-20°C…+70°C
Storage Temperature:	-40°C…+85°C
IP grade	IP67 / IP69K (potted electronic enclosure, sealed Deutsch DTM connector)

Electrical Specifications

EMC	The unit fulfills EN ISO 14982: 2000 standard (Agricultural and forestry machinery)
Supply voltage	Nominal voltages: 12-24V Absolute maximum supply range: 9.5-40V
Supply current	Typical supply current (no external sensors connected): 50mA Maximum supply current: 250mA Typical supply current in low power mode: < 500uA.
Wake-up from low power mode	- CAN message - Key input (K50)

Processor and memory

Microcontroller Unit	TI CC3200MOD WiFI module
Flash memory	1MB internal flash
Ram	256KB internal Ram

Input/output and communication

CAN	1 CAN bus lines (compliant ISO 11898-2 and 5. Up to 1 Mbit/s) Wake-up
Analog output	0-10V (unregulated 12V supply, load-dump protected)
Digital input	1 key input (K50)
Miscellaneous	On board 3-axis digital accelerometer 2 Leds status indication

Disclaimer

The present specifications are intended to be preliminary. Parameters and values indicated in the document might be subjected to changes. For further information, please contact: comm@roj.com