

# CAN-bus on Wi-Fi

## EMBEDDED MODULES

CAN2.0 HIGH SPEED / Wi-Fi

Compact-CS-CAN  
PWR-F-CAN-S  
PWR-F-CAN-CS

Ordering Code: CMP-R-S03-CS  
Ordering Code: PWR-F-S03-S  
Ordering Code: PWD-F-S03-CS

## PRODUCT OVERVIEW

Wi-Fi CAN-bus modules extend the high performances of CAN-bus network over TCP/IP, through an open protocol (CSV and XML) for easy integrations on Mobile and Web applications.

In other words Wiicom brings CAN-bus networks on Wi-Fi in a easy, secure and immediate way.

In order to enable easy communications, Wiicom Wi-Fi modules support both ad-hoc and infrastructure connection-types.

The first is highly suited to applications Vehicle to Vehicle (V2V) or Vehicle to Mobile (V2M), while the second is able to manage communications Vehicle-to-Infrastructure (V2I).

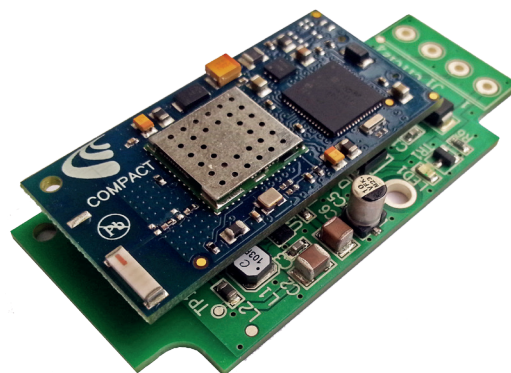


## COMPACT CANBUS FAMILY

Wiicom offers an embedded version (Compact-CS-CAN) without transceiver that can be directly connected to customer transceiver. This version needs a power supply between 4V and 10V (typically 5 Vdc).

In addition there are also two powered versions equipped with CAN-bus transceiver. These versions can accept a power supply between 7 and 28 Vdc, for an easy integration in customer applications.

All versions can communicate using open simple protocols like CSV and XML for a simple integration in customer applications.



## EASY CONFIGURATION

All Wiicom CAN-bus Wi-Fi modules can be configured easily and intuitively through the software CompactReadyGo provided by Wiicom and available on PC/OSX/Linux.

With our Configurator is possible to select a number of CAN-bus incoming signals or messages and prepare a CAN Bus message in transmission in CSV format.

## DRAG&DROP DASHBOARD

CAN-bus Wi-Fi modules are optionally provided in bundle with a customizable widget-based dashboard software. Drag&Drop Dashboard is able to visualize a set of CAN-Bus signals with custom widgets directly chosen by the user.

With Drag&Drop Dashboard, OEMs and System Integrators will be able to create an ideal monitoring application for their own vehicles.

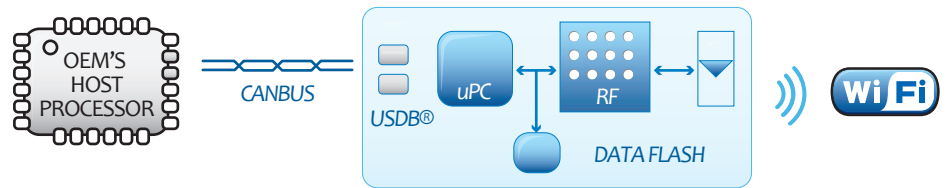
Drag&Drop Dashboard is available on PC/OSX/Linux version and on mobile (iOS and Android) version.

## APPLICATIONS

In fact CAN-bus Wi-Fi modules dramatically reduces development time and eliminates the burden of testing and certification, allowing customers to exclusively focus on core product.



## APPLICATION BLOCK DIAGRAM



## FIELD INTERFACE

Data Interface	XML, CSV
Electrical Interface	Compact-CS-CAN: CAN2.0 HIGH SPEED (H-L) without transceiver PWR-F-CAN-S, PWR-F-CAN-CS: CAN2.0 transceiver
Electrical Compatibility	TTL Compatible 3.3V / 5V

## RF CHARACTERISTICS

WLAN Functions	Ad-hoc and Infrastructure modes
Network Standard Support	IEEE 802.11b/g single stream n
RF Data Rates	802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
RF Output Power	15-17 dBm
RF Frequency Band	2.412 - 2.484 GHz (integrated antenna)
Security Protocol	WEP, WPA and WPA2-PSK
Network Protocols	TCP, IPv4, ARP, ICMP

## ENVIRONMENT CONDITIONS

Operating Temperature	Industrial (-40°C to +85°C)
Dimension	Embedded: 42 x 23 x 5 mm

## POWER SUPPLY

RUN mode, Radio ON	RX = 56mA, TX = 160mA (@7Vdc)
Supply Voltage	Compact-CS-CAN: 4-10 Vdc (typically 5Vdc) PWR-F-CAN-x: 7 - 28 Vdc

## PRODUCT SUPPORT

CAN-bus Wi-Fi family modules can be used in a wide range of applications. It is ideal to be used by industry leaders in the areas of industrial and automotive applications.

Through distributors Wiicom has presence in all countries in Europe. For additional information, please visit [www.wiicom.it](http://www.wiicom.it) or contact directly our customer web support.