

CAN-bus on Wi-Fi

BOXED MODULES

CAN2.0 HIGH SPEED / Wi-Fi

Boxed module with screw connector

PWR-F-CAN-B

Ordering Code: PWR-F-S03-B2

Boxed module with DB9 connector

PWR-F-CAN-B9

Ordering Code: PWR-F-S03-B9

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 CAN-BUS FAMILY

Wiicom offers a boxed version equipped with CAN-bus transceiver. This version can accept a power supply between 7 and 28 Vdc, for an easy integration in customer applications.

PWR-F-CAN-Bx 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.

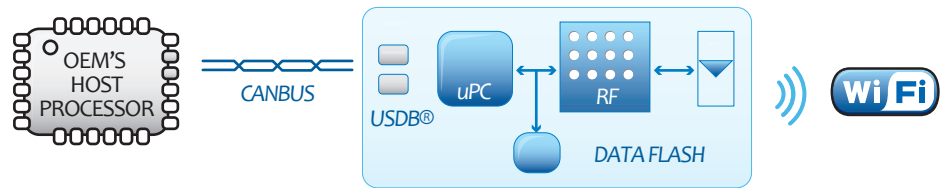
Drag&Drop Dashboard is available on PC/OSX/Linux version and on mobile (iOS and Android) version.

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	CAN2.0 transceiver True holes 2,54mm or Universal screw line 4 pin or DB9 Male connector, 4 poles
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	Boxed: 69 x 50 x 20 mm

POWER SUPPLY

RUN mode, Radio ON	RX = 56mA, TX = 160mA (@7Vdc)
Supply Voltage	7 - 28 Vdc

(*) Vcc Power supply available on PIN number 9 of DB9 connector. Cables for connection and power are available for boxed modules with DB9 connector

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 or contact directly our customer web support.