

PWR-F-RSx-Bx

802.11 b/g/n Wi-Fi Module OEMs, Tx-Rx, Client / Server type, RS485 / RS232 transceiver, led Wi-Fi flashing, ABS box

Boxed modules with screw connector

PWR-F-RS485-B [Ordering Code: PWR-F-S04-B](#)

PWR-F-RS232-B [Ordering Code: PWR-F-S02-B](#)

Boxed modules with DB9 connector

PWR-F-RS485-B9 [Ordering Code: PWR-F-S04-B9](#)

PWR-F-RS232-B9 [Ordering Code: PWR-F-S02-B9](#)

PRODUCT OVERVIEW

Wiicom supplies a Wi-Fi solution for RS232 and RS485 connections that combines powering and interfacing.

This product family contains all modules equipped with an interface specific transceiver: PWR-F-RS232-Bx and PWR-F-RS485-Bx are equipped with respectively RS232 and RS485 transceiver to communicate with the host.

This product family is developed with an extended power supply range from 7V to 28V. Field interface is 5V TTL compatible.

PWR-F-RS232-Bx and PWR-F-RS485-Bx are complete and fully certified modules that offer a quick, easy and cost effective solution to System Integrators to enable Wi-Fi connectivity into their systems.

PWR-F-RS232-Bx and PWR-F-RS485-Bx are boxed with an ABS black box.

Connectivity is ready after few configuration steps using an intuitive PC-interface (available for Windows, Linux and Mac OSX).

Like other Wiicom modules they permit ad hoc mode and infrastructure operation mode.

CLOUD READY

PWR-F-RSx-Bx client/server versions are able to connect directly to servers, also to public ip, and start a communication with them. In addition they are able to make a connection with a Cloud Internet service, like Wiicom Sense Cloud.

Boxed versions include a black ABS case, that makes it usable in any environment.



FEATURES

- Compliant to 802.11b/g and single stream 802.11n
- Ad-hoc and infrastructure operation modes
- Support WPA/WPA2-PSK and WEP security modes
- Support TCP protocol
- Wide supply range (7 to 28V)
- Temperature industrial range (-40 to 85°C)

MODULE SPECIFIC FEATURES

- PWR-F-RS232-Bx: Client/Server sockets, RS232 transceiver
- PWR-F-RS485-Bx: Client/Server sockets, RS485 transceiver

APPLICATIONS

Signal monitoring in Cloud

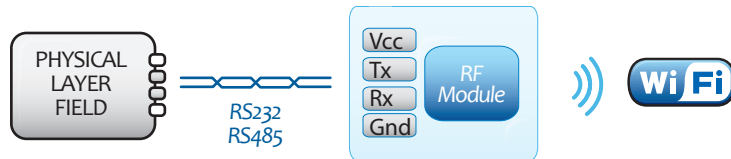
Signals actuation

Industrial applications

Building automation

Environmental monitoring

APPLICATION BLOCK DIAGRAM



FIELD INTERFACE

| | |
|--------------------------|--|
| Data Interface | Direct transmission up to 2.5 Mbps (without overhead) |
| Electrical Interface | PWR-F-RS232-Bx: module with RS232 transceiver PWR-F-RS485-Bx: module with RS485 transceiver True holes 2,54mm or Universal screw line 4 pin or DB9 Female connector, 4 poles |
| Electrical Compatibility | TTL Compatible 5V, +- 15KV ESD |

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 |
| Socket type | 7 available sockets: Client/Server types |

ENVIRONMENT CONDITIONS

| | |
|-----------------------|---|
| Operating Temperature | Industrial (-40°C to +85°C) |
| Dimension | PWR-F-RSx-B: 67 x 35 x 19 mm PWR-F-RSx-Bg: 83 x 40 x 20 mm |

POWER SUPPLY

| | |
|----------------|-----------------------------|
| Consumption | RX = 56mA, TX = 160mA (@7V) |
| 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

The PWR-F-RSx-Bx modules can be used in a wide range of applications. It is ideal to be used by industry leaders in the areas of industrial, smart energy, logistic, health and medical, automotive, audio, and consumer 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.