

PWR-F-RSx

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

PWR-F-RS485-S

Ordering Code: PWR-F-S04-S

PWR-F-RS232-S

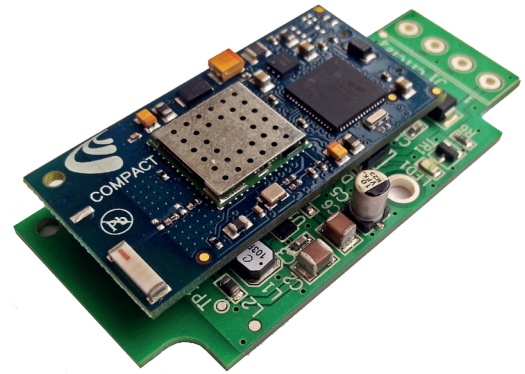
Ordering Code: PWR-F-S02-S

PWR-F-RS485-CS

Ordering Code: PWR-F-S04-CS

PWR-F-RS232-CS

Ordering Code: PWR-F-S02-CS



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 and PWR-F-RS485 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.

All PWR-F-RSx 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 and PWR-F-RS485 are ready to be boxed by the System Integrator, in accordance with his requests, with an ABS or PVC 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 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 an Internet Cloud service, like Wiicom Sense Cloud.

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-RSx-S: Server type sockets
- PWR-F-RSx-CS: Client/Server sockets

APPLICATIONS

Signal monitoring in Cloud

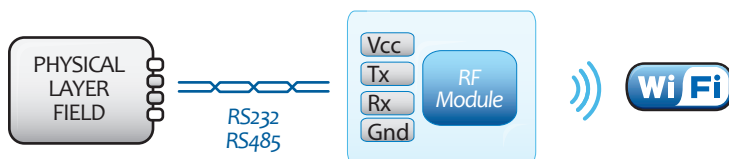
Signals actuation

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-x: module with RS232 transceiver PWR-F-RS485-x: module with RS485 transceiver True holes 2,54mm or Universal screw line 4 pin
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: Server type for PWR-F-RSx-S, Client/Server types for PWR-F-RSx-CS

ENVIRONMENT CONDITIONS

Operating Temperature	Industrial (-40°C to +85°C)
Dimension	67 x 30 x 9 mm

POWER SUPPLY

Consumption	RX = 56mA, TX = 160mA (@7V)
Supply Voltage	7 - 28 Vdc

PRODUCT SUPPORT

The PWR-F-RSx module 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.