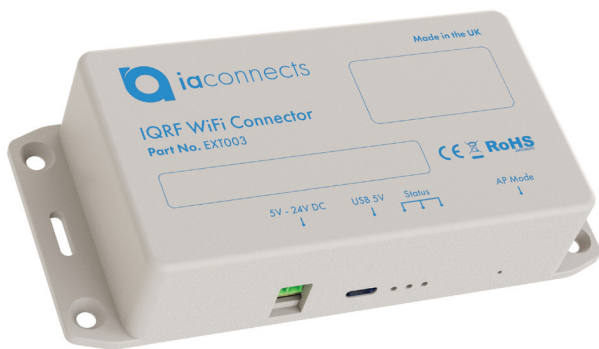




IQRF WiFi Connector

EXT003

Connecting devices to IoT via wireless mesh networks using low power, low speed and low data volume.



The IQRF WiFi Connector from IAconnects sends and receives IQRF telegrams to and from any connected IQRF enabled device. Received telegrams are checked for integrity before being forwarded to a MobiusFlow gateway via WiFi or wired Ethernet.

Each connector is configured to communicate with a specific MobiusFlow gateway. Pre-shared keys are used to encode all messages to ensure message integrity.

It can be used with any electronic equipment, whenever there is a need of wireless transfer, e.g. remote control, monitoring of remotely acquired data or connection of more devices to a wireless network.



Features & Benefits

- Large range using sub-GHz ISM bands 868, 916, 433 MHz.
- Low power
- Programming not needed but possible
- Mesh networking solved inside
- Really easy to implement

#iaconnects



Connect, Control, Communicate

www.iaconnects.co.uk

Tel: +44 (0)1491 845505

Email: info@iaconnects.co.uk

MobiusFlow® is a registered trademark of IA Connects Technology Ltd

IQRF WiFi Connector
Part No. EXT003

TECHNICAL SPECIFICATION

Power supply	5 – 24 VDC or 5V USB (230mA @ 5V) Optional 48 V PoE
Internal processor	Xtensa dual-core 32 bit LX6 microprocessor running at 240 MHz
WiFi	2.4 GHz 802.11 b/g/n Security: IEEE 802.11 security (WPA/WPA2)
IQRF	License-free ISM bands 868/916/433 MHz
Operating temperature	0°C to +60°C

IQRF

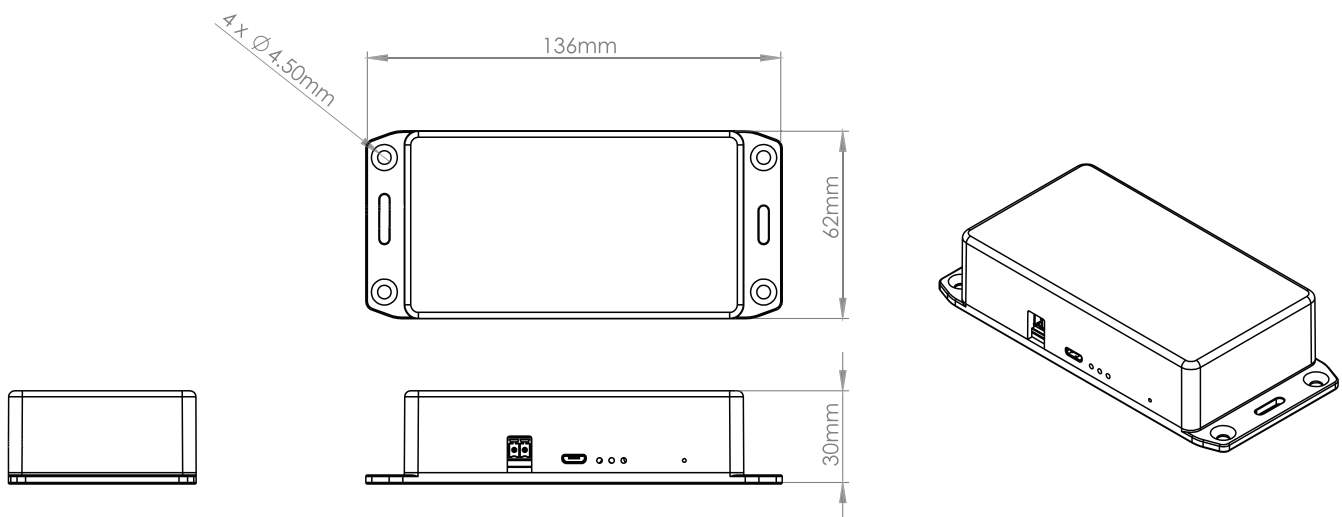
IQRF is a platform for low power, low speed and low data volume wireless connectivity ranging tens and hundreds of meters (up to several kilometers in special cases or in networks) e.g. for telemetry, industrial control and automation of buildings and cities (street lights, parking etc.).

Features & Benefits

- RF bands: free ISM 868 MHz, 916 MHz and 433 MHz (world-wide)
- Based on transceivers with built-in operating system (OS) and optional DPA communication layer
- Fully open user-specific functionality depends solely on application software inside:
 - Using ready framework under DPA
 - For many applications requested functionality is achieved without programming at all.
 - For uncommon applications further extensions or modifications can be easily programmed (in C language).
 - In special cases application SW can completely be programmed by the user (under OS, in C language, without DPA).
- IQRF is suitable also for simple peer-to-peer communication but its highest strength is in complex mesh networks.
- Packet-oriented communication, max. 64 B per packet
- RF range: hundreds of meters in free space and tens of meters in buildings per hop, up to 240 hops per packet
- Extra low power consumption: sub- μ A standby, as low as 15 μ A receiving
- RF bit rate: about 20 kb/s

It can be used with any electronic equipment, whenever there is a need of wireless transfer, e.g. remote control, monitoring of remotely acquired data or connection of more devices to a wireless network.

Mechanical Outline



Integration partner:

