

IQUBE

IQRF gateway IQD-GW-02

Description

IQUBE is an indoor gateway for the IQRF platform. It is intended to host the Coordinator of IQMESH wireless network.

Key features

- Based on [Orange Pi Zero](#) and Linux open-source [IQRF Gateway Daemon](#)
- Connectable to Internet and optionally to any existing cloud servers (e.g. IBM Cloud, Microsoft Azure, AWS IoT, Hexio IoT)
- Multiple communication channels UDP, MQ, MQTT and WebSocket
- RAM (for [aggregating](#) data from Beaming sensors)
- Management through the [IQRF Gateway Webapp](#)



Purpose

- The easiest implementation of IQRF network Coordinator and the gateway with Internet/LAN connectivity enabling to control and manage wireless end devices.

Applications

- IQRF wireless Mesh (IQMESH) networks
- For both ([STD](#) as well as [STD+LP](#)) network types
- IQRF interoperable as well as non-interoperable applications
- Internet of Things

Technical specifications

Typical values (until otherwise specified)

| | |
|-------------------------|---|
| Power supply | 5 V DC, 2 A max. Connected via microUSB cable. |
| RF transceiver | TR-76D, DPA-Coordinator-UART plug-in uploaded |
| RF band | 868 MHz or 916 MHz, configurable |
| RF range | Tens of meters in buildings (depends on the environment and obstacles) Up to 400 m in free space |
| Other RF parameters | See TR-76D datasheet |
| CPU | Allwinner H2 ARM Cortex A7 Quad-core |
| SD card memory | 8 GB |
| Interfaces | USB 2.0, Ethernet 100 Mb/s |
| Custom DPA Handler | HWPID = 3004 |
| Default Access Password | All 16 B filled with zeros |
| Ambient temperature | -10 °C to +40 °C |
| Relative humidity | 0% to 90% (without hoar-frost and condensation) |
| Size | 50 mm x 54 mm x 36 mm |
| Weight | 60 g |

More information at docs.iqrf.org/iqd-gw-02.