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. **Warning:** Only the power adapter supplied with the device must be used!
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.