IQRF repeater

IQD-REP-02-x1D

Description

IQD-REP-02-W1D is an indoor repeater for the IQRF platform. It is intended to increase RF range, throughput, and reliability in IQRF wireless Mesh networks. Moreover, it supports Beaming sensors.

Key features

- Increasing RF range and throughput
- Beaming sensors supported
- Contactless including into the network via NFC

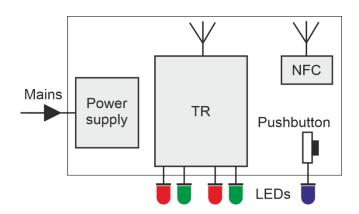## Purpose

- RF range prolonging
- To increase network redundancy, robustness, and reliability
- Covering of deaf places
- Creating a routing structure
- Aggregating data from low-power sensors

Applications

- IQRF wireless Mesh (IQMESH) networks
- IQRF interoperable as well as non-interoperable applications
- For STD as well as STD+LP networks
- Interfacing low-power sensors
- Internet of Things

Technical specifications   *Typical* values (until otherwise specified)

Power supply	100 V to 240 V AC, 50 Hz to 60 Hz (mains), 15 mA max.
RF transceiver	TR-76DA (with antenna built-in the TR board)
RF band	868 MHz or 916 MHz, configurable
Effective radiated power	Up to 6.5 dBm, programmable in 8 levels
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
IQMESH network Node type	STD
Custom DPA Handler	HWPID = 5002
Ambient temperature	-20 °C to +60 °C
Relative humidity	0 % to 90 % (without hoar-frost and condensation)
Ingress protection	IP54
Size	77.6 mm x 54.8 mm x 82.0 mm
Weight	100 g