IE COMM
NB-IOT BRIDGE

Battery powered NB-IoT radio module, used for automated reading of water meters.

The module is capable of receiving telegrams compatible with Wireless M-Bus OMS.

The collected meter readouts are transmitted over the NB-IoT network whose advantage is great signal coverage, over the already built-out network of mobile operators.

www.iskraemeco.com

Key features

- Receiving measurements from Wireless M-Bus OMS compatible devices
- Transferring collected measurements over LTE Cat NB1 – frequency band B20
- Data transfer via UDP protocol
- Remotely updating firmware

Features

- Battery life time: up to 10 years (depending on device configuration and network radio signal quality)
- Protection type: IP68
- Operating temperature: -20°C ... 80°C
- Collecting measurements from up to 5 remote OMS Wireless M-Bus devices
- Adjustable and pseudorandom measurement delivery sending interval in order to avoid network congestion
- Adjustable periodic measurements collecting interval
- Embedded Real-Time Clock (RTC)
- Guaranteed measurements delivery even in the event of temporary network failure (the device stores the measurements internally and delivers them once the network connection has been restored. In the event of an overflow, the device will delete the oldest one, first in first out principle)
- The devices deliver the measurements to the NBIoT Cloud from which the readings are forwarded to the user or third party systems
- Current data forwarding protocols are JSON or XML (via HTTPS), web API and e-mail
- Possibility of remotely updating firmware
- Monitoring network and device performance through NBIoT cloud
- Remote configuration of the device
- Due time
- Configuration log
- Forwarding alarms from subdevices

Technical characteristics
Radio interface

Frequency	LTE Cat NB1 frequency band B20 (other bands on demand)
Antenna type	Internal
General data	
Power supply	Integrated battery
Housing	Material: Thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Color: Light gray Protection type: IP68
Operating temperature range	-20°C ... 80°C