## **H** holosys



## **Holosys NB-IoT Bridge**

Holosys NB-IoT **Bridge** is a module used for automated collecting of consumption data from various types of utility meters (water, gas, electrical energy etc.). The module is capable of receiving telegrams compatible with the Wireless M-Bus standard. The collected meter readouts are transmitted over the NB-IoT network that has the advantage of strong signal coverage and enables simple infrastructure, easy maintenance and reliable data transfer for AMR scenarios.



Receiving readouts from up to 5 wireless M-Bus devices



LTE Cat NB1
- band B20
(others on demand)



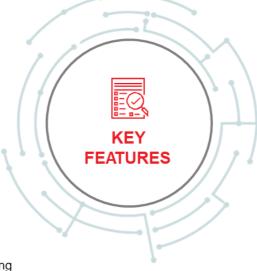
Local and remote device configuration



Possible adjustment to Sensus RF protocol

- Battery life time: up to 10 years (depending on device configuration and network radio signal quality)
- Operating temperature: -20°C ... 80°C
- Adjustable periodic interval of measurement sampling
- Adjustable and pseudorandom measurement delivery sending interval to avoid network congestion
- Protection type: IP68
  - Device delivers the readouts to the Holo-IoT cloud platform from which the data is forwarded to the user or third party systems
    - Current data forwarding protocols are JSON or XML (via HTTPS), web API and e-mail

- Monitoring network and device performance through the Holo-IoT platform
  - Embedded Real-Time Clock (RTC)
    - Possibility of remote firmware update
      - Guaranteed readout delivery in the event of network failure (the device stores up to 100 readouts internally and delivers them once the network connection has been restored)
    - Possible synchronization with a repeater device
  - Available network information: CE level, CSQ, Cell ID
  - Battery voltage information





## TECHNICAL CHARACTERISTICS

Radio interface	
Frequency	LTE Cat NB1 – frequency band B20 (other bands on demand)
Antenna type	Internal
General data	
Power supply	Integrated battery  Battery life time (25°C): ~10 years (depending on the configuration)
Housing	Material: Thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Color: Light gray Protection type: IP68 Mounting: Bolts on the mountable surface
Operating temperature range	-20°C+80°C
Weight	212 g