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.

5

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

KEY FEATURES

• 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