



NB-IoT 580N SmartPoint

Flexible Meter Reading

The Sensus NB-IoT 580N SmartPoint module provides AMI solution capability for utilities. The 580N pairs to radio water meters with SensusRF or standard OMS wM-Bus radios to AMI communications using NB-IoT technology. This allows the utility to deploy water meters and utilize the system from day one of deployment.

APPLICATIONS

- Advanced Meter Infrastructure (AMI) for water
- Bridge Sensus meters and standard OMS compliant meters to two-way NB-IoT AMI
- Consumption Analysis
- Distribution Network Monitoring
- Billing Reads

The NB-IoT SmartPoint module supports license free 433MHz and 868MHz bands to receive the SensusRF or wMBus radio and uses commercial NB-IoT networks in 3GPP approved bands for the onward AMI transmission.

The Sensus NB-IoT SmartPoint module is a bridge between low power short range radio and its powerful NB-IoT radio transmitter that can broadcast over larger distances to existing cellular network infrastructure. The SmartPoint module helps you reduce total cost of ownership by enabling a truly flexible AMI solution; it eliminates the need to build a bespoke AMI network or can complement new and existing FlexNet AMI deployments. Once the SmartPoint module is installed, its two-way system platform can be updated without requiring personnel to visit each meter, thus controlling both deployment and operational costs.

FEATURES

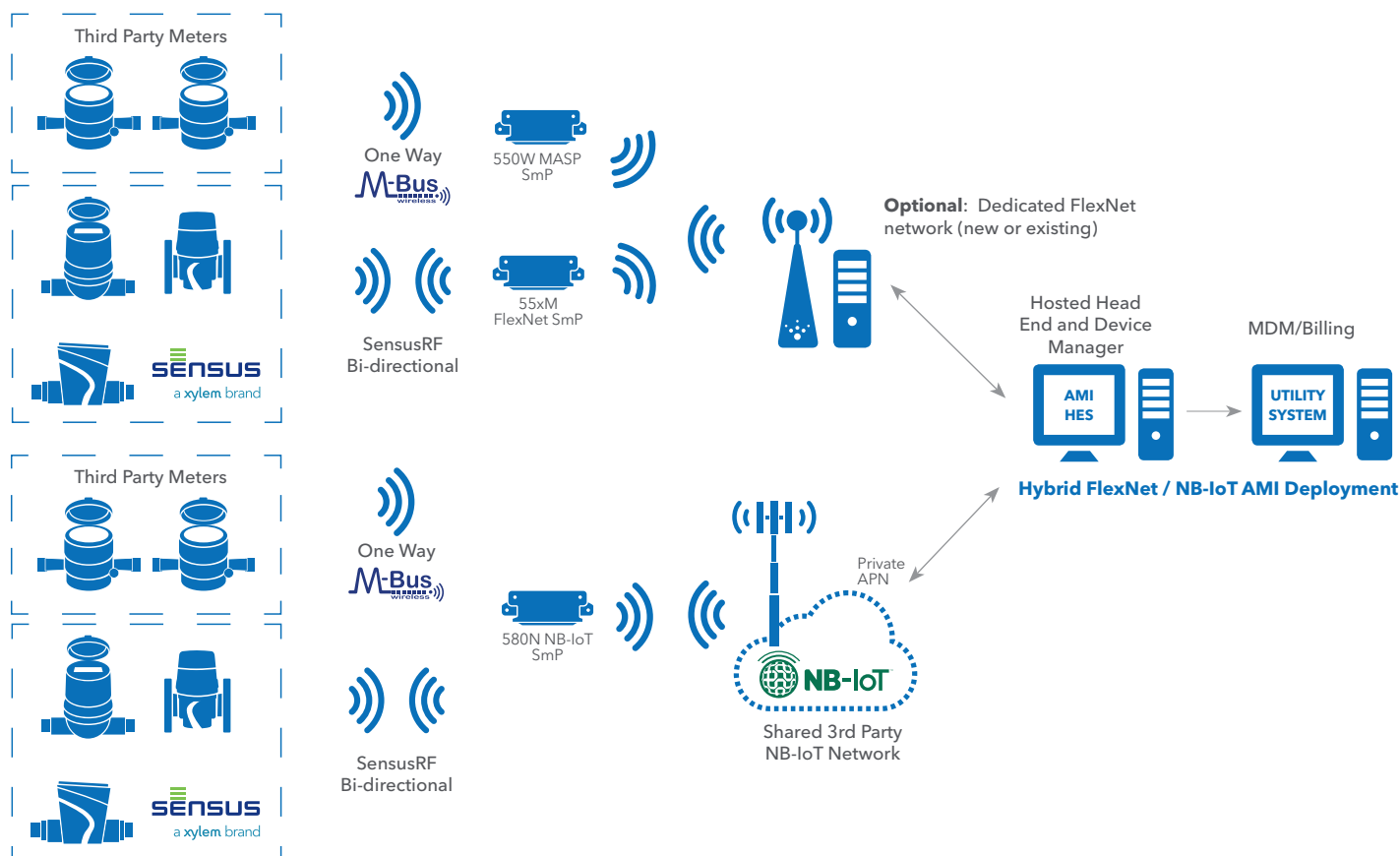
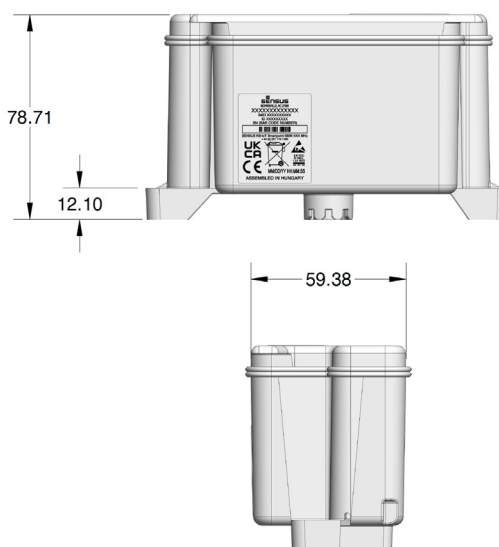
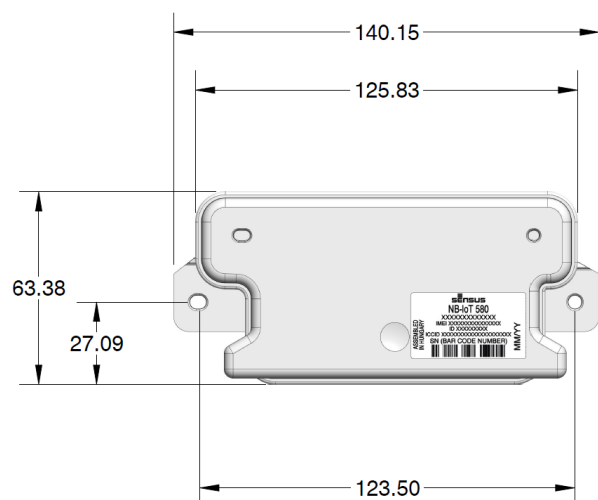
- ISM Short Range Radio support
- Connects to existing Long Range Radio (NB-IoT) networks
- Supports AES 256 bit encryption
- Easily mounted in any meter pit (boundary box lids, plastic, composite, brick and concrete)
- Firmware upgradable
- Configurable Meter Sampling rate
- Configurable Data Transmission rate
- Critical alarms pushed
- Battery powered

SPECIFICATIONS

Supported NB-IoT Bands	B3, B8, B12, B20, B28
Supported AMR Band Frequencies	433 MHz/868 MHz
Protection Class	IP68
Security	AES256 Encryption end-to-end
Operating Temperature	-20 °C to +50 °C
2-way Communications	Bidirectional via SensusRF
Configuration Interface	RNI/FieldLogic
Endpoint pairing ratio	1:1
Power supply	Internal battery (D-cell)
Dimensions	140 x 63.4 x 78.7 mm
Weight	280 g
Battery Life	15 years ¹

¹ Assuming 1 hour meter sampling rate, 1 day transmission rate, and reliable cellular coverage.

Flexible Meter Reading



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