



Cyble™ 5

Transformation. Without Disruption

As a water utility, a reliable metering solution is important to protect revenue and manage operations. Itron's Cyble 5 module provide long-term value as it's built to last for 10 years or more in even the harshest environments. Less maintenance and fewer replacements help lower operating costs. Cyble 5 also makes it easy and cost-effective to transition to AMI without replacing existing meters.

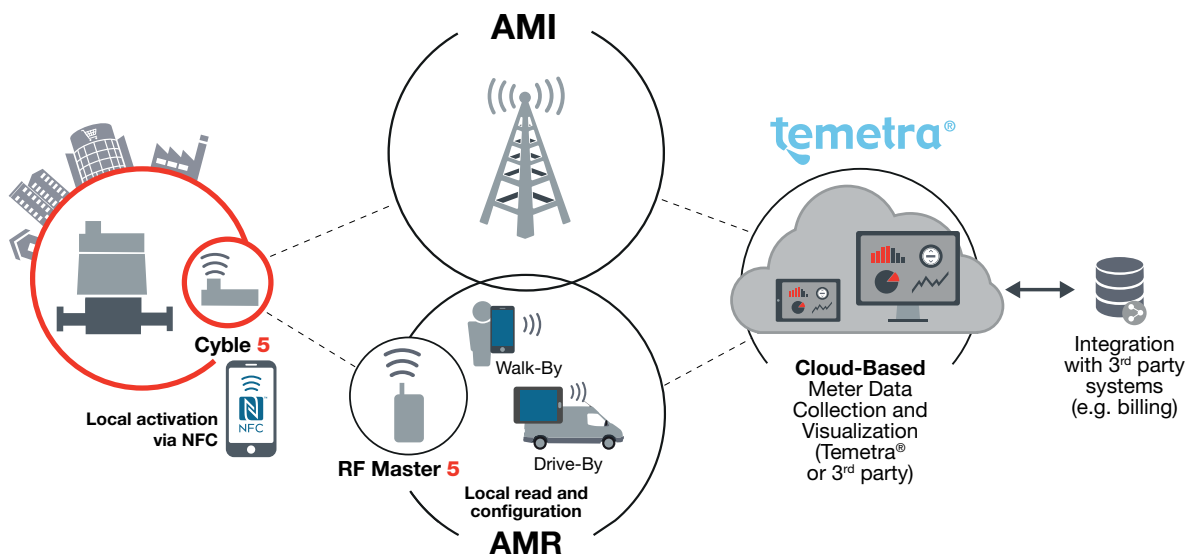
NO NETWORKING CONSTRAINTS

Multi-connectivity allows Cyble 5 to fit in complex deployments and maintain reliable data transfer as communications strategies shift. Out of the box, Cyble 5 operates in dual mode so utilities can transition from AMR to AMI at their own pace or provide AMR backup during network interruptions.

ENGINEERED FOR ENDURANCE IN EVERY ENVIRONMENT

Cyble 5 is built to perform reliably in the most demanding conditions, helping utilities minimize maintenance costs and avoid premature replacements.

With IP68 certification, Cyble 5 is rigorously tested to withstand 100% relative humidity and water ingress throughout the life of the meter. Its watertight construction ensures consistent performance, even in harsh and unpredictable environments.



INTEROPERABLE COMMUNICATIONS VIA OPEN PROTOCOLS

Cyble 5 modules operate with open standard protocols in mobile data collection systems using wM-Bus or multi-purpose IoT networks (LoRaWAN/Sigfox/OMSV4 technologies). Cyble 5 can be activated locally via NFC.

MORE OPERATIONAL DATA

Cyble 5 helps utilities overcome key operational challenges by transforming data collected through AMR and/or AMI. Delivering timely, relevant, and extensive data sets, Cyble 5 allows for a better understanding of resources and improved customer relationships.

Billing index & consumption data logging

Daily billing and custom billing functions with precise 15-min resolution consumption data.

Meter sizing

Precise monitoring of the distribution flow, recurring calculation of maximum and minimum values to help detect meter sizing errors.

Sanitary risk prevention

Detection and quantification of backflow to help assess water quality and/or sanitary risk.

Alerts

Alarms are generated when important events are detected, such as:

- » Customer premise leaks (continuous flow)
- » Tamper attempt (dismantling)
- » Blocked meter (zero consumption)
- » Oversized / undersized meter
- » Water quality (high temperature)
- » Low battery
- » Time synchronisation failure

Technical Specifications

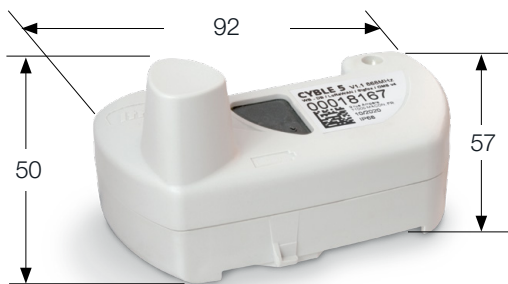
Radio Frequency Features

Protocol	wM-Bus T2/C2, LoRaWAN™, Sigfox®, OMS v4
Modulation	FSK, BPSK (Sigfox®), CSS (LoRa®)
Frequency carrier	915-928 MHz (AMI) and 434Mhz (AMR)
Radiated power	< 25 mW
Battery lifetime	10 years +

Functional Specifications

Power source	Lithium batteries
Protection	IP 68
Relative humidity	0 to 100% - submersible
Operating temperature*	-10°C / +55C
Accidental temperature	-20°C / +70°C

* Under normal applications with the specified reference operating conditions.



Dimensions (mm)

PROVEN VALUE

The first version of the Itron radio modules have been in the field since 2001 and are still operating reliably today. We have deployed more than 200 million communication modules, including 2 million Cyble 5 units.

Cyble 5 is the latest evolution of our AMR/AMI modules, proven to deliver exceptional quality and return on investment.

» Designed for the field

Easy to connect through a clip-on design with no wiring or wall mounting required, Cyble 5 is compact with an integrated antenna, for use in a wide range of existing meter-box installations.

» Durable under severe conditions

Designed to resist water, contaminants, corrosion, rough handling, and temperature cycling for reliable operation over time. Cyble 5 comes standard with IP68 certification.

» Secure mounting, sustained accuracy

Itron's patented technology ensures that the Cyble module docks perfectly on the mechanical meter and does not move, resulting in sustained accuracy over time. Cyble 5 is compatible with Itron's Cyble-ready range of mechanical water meters.

COMPLIANCE

- » IP68 certified according to EN 60529
- » SDDPI
- » QCVN 122:2022
- » QCVN 18:2022
- » EN 300 220

CONNECTIVITY CERTIFICATIONS

- » LoRaWAN R1.0.4
- » Sigfox V2.6.0
- » OMS V4.1.2



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We create a more resourceful world

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