



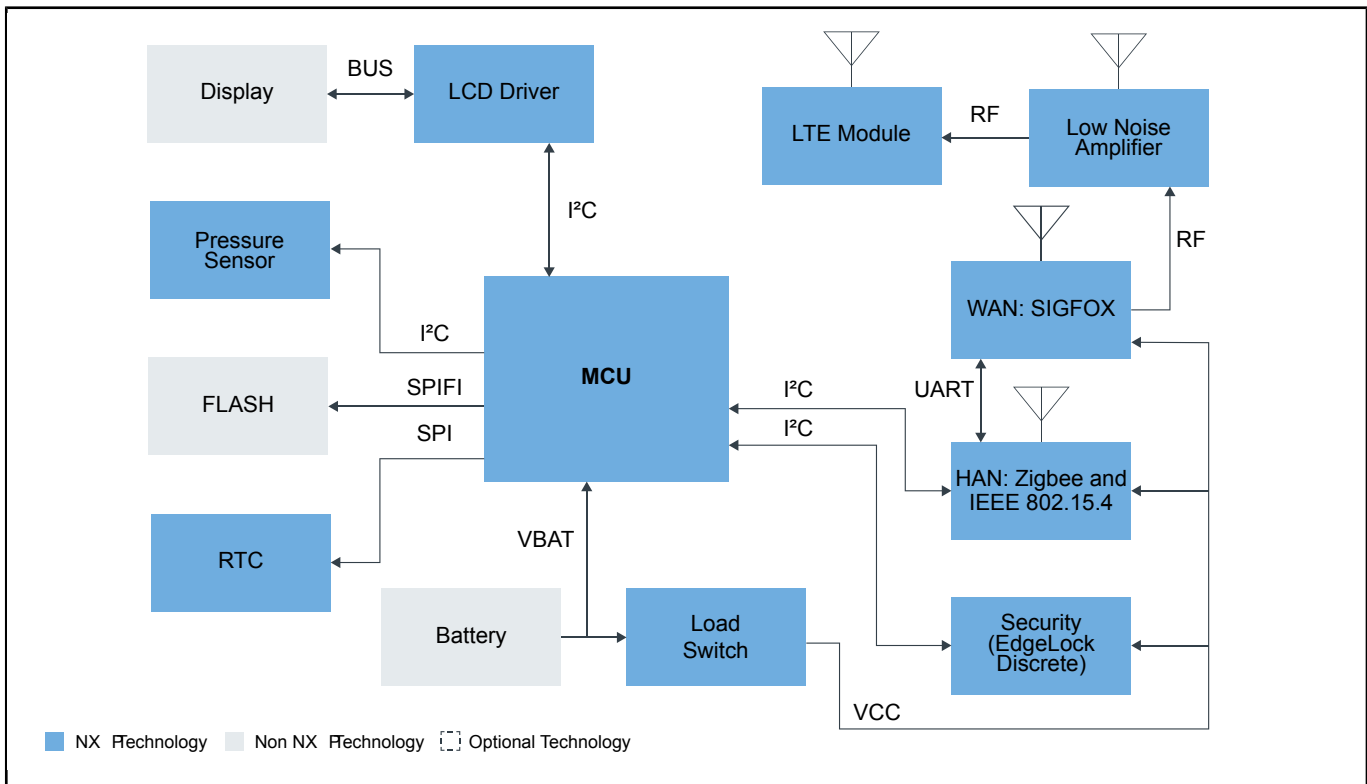
# Water Meter

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NXP connectivity solutions for smart metering address the challenges smart cities face for reliable, secure communications for remote metering and home energy management. We enable remote metering with NAN technologies like IEEE 802.15.4 and Wireless MBUS. Additionally, NXP fosters smart energy management inside homes with HAN technologies like ZigBee.

Flow meters help smart cities measure the volume of water at a specific time or over a long period. The measurement is then displayed on low-power segment LCDs, often driven by segment LCD drivers on an MCU. Advanced flow meters incorporate RF communication interfaces for connecting to one-way or two-way RF meter reading systems.

## Water meter LPC Block Diagram

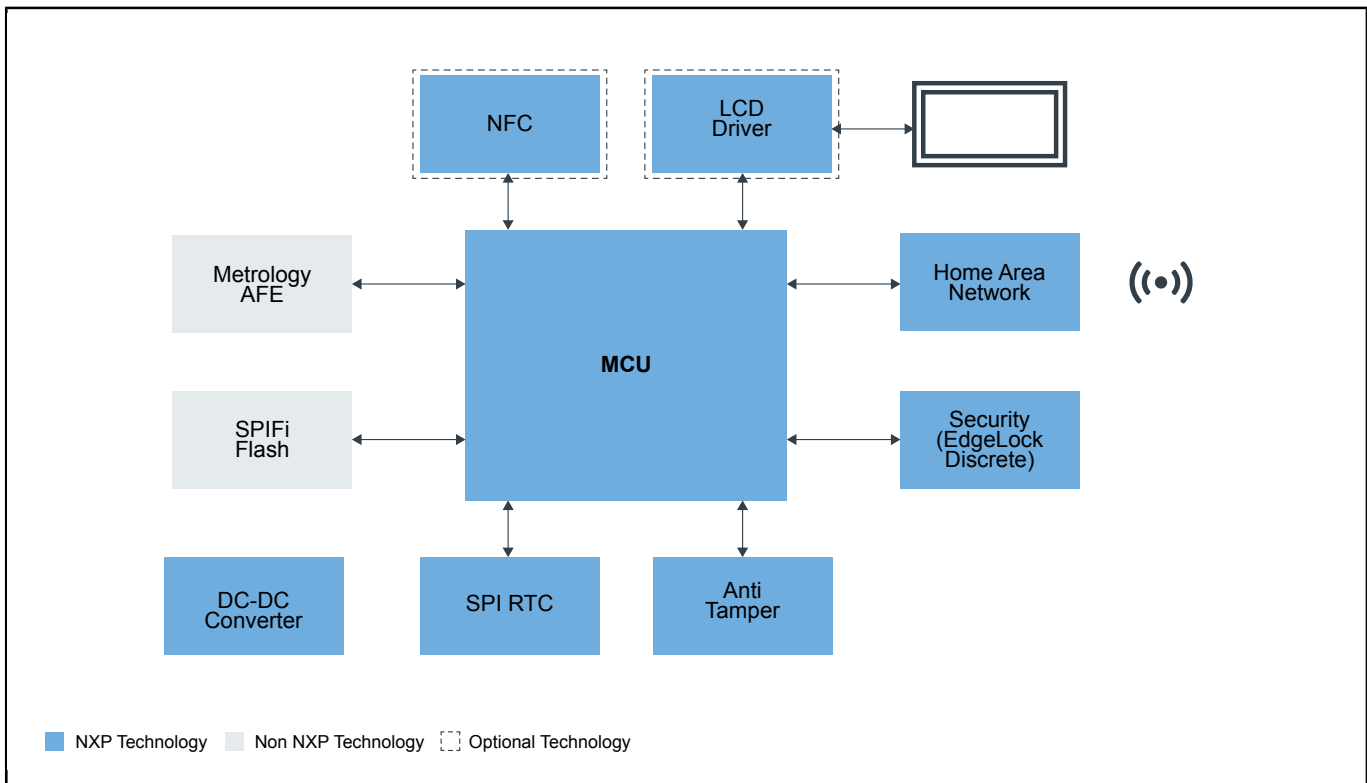


### Recommended Products for Water meter LPC

|                   |   |
|-------------------|---|
| MCU               | <ul style="list-style-type: none"> <li>• <a href="#">LPC546XX</a>: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm<sup>®</sup> Cortex<sup>®</sup>-M4 Core</li> </ul> |
| Home Area Network | <ul style="list-style-type: none"> <li>• <a href="#">JN5169</a>: ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 KB Flash, 32 KB RAM</li> </ul>   |

|                              |  |
|------------------------------|--|
|                              | <ul style="list-style-type: none"> <li>• <a href="#">K32W061_41</a>: K32W061/41: High-Performance, Secure and Ultra-Low-Power MCU for Zigbee®, Thread™, and Bluetooth® LE 5.0 with Built-In NFC Option</li> </ul>  |
| Wide Area Network            | <ul style="list-style-type: none"> <li>• <a href="#">OL2385AHN</a>: Low-Power Multi-Channel UHF RF Wireless Platform</li> </ul>  |
| Low noise amplifier          | <ul style="list-style-type: none"> <li>• <a href="#">BGS8H2</a>: SiGe:C Low-Noise Amplifier MMIC with Bypass Switch for LTE</li> </ul>   |
| Driver                       | <ul style="list-style-type: none"> <li>• <a href="#">PCF85133U</a>: Universal LCD Driver for Low Multiplex Rates</li> </ul>  |
| Peripherals                  | <ul style="list-style-type: none"> <li>• <a href="#">PCF2123</a>: SPI Real-Time Clock/Calendar</li> <li>• <a href="#">MPXx5050</a>: Differential and Gauge Pressure Sensor (-50 to 50 kPa)</li> <li>• <a href="#">PCF2131</a>: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal</li> </ul>            |
| Security (EdgeLock Discrete) | <ul style="list-style-type: none"> <li>• <a href="#">SE050</a>: EdgeLock® SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility</li> </ul>   |
| Peripherals                  | <ul style="list-style-type: none"> <li>• <a href="#">Peripherals</a>: Differential and Gauge Pressure Sensor (-50 to 50 kPa)</li> <li>• <a href="#">Peripherals</a>: SPI Real-Time Clock/Calendar</li> <li>• <a href="#">Peripherals</a>: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal</li> </ul> |
| RF Switch (LTE)              | <ul style="list-style-type: none"> <li>• <a href="#">NX3P2902BUK</a>: Logic-Controlled High-Side Power Switch</li> <li>• <a href="#">NX3L1G53</a>: Low-Ohmic Single-Pole Double-Throw Analog Switch</li> </ul>   |
| RF Switch (LTE)              | <ul style="list-style-type: none"> <li>• <a href="#">NX3P2902BUK</a>: Logic-Controlled High-Side Power Switch</li> <li>• <a href="#">SA630D</a>: Single-Pole Double-Throw (SPDT) Switch</li> </ul>   |

## Water Meter KL Block Diagram



| Recommended Products for Water Meter KL |   |
|---|---|
| MCU                                     | <ul style="list-style-type: none"> <li>• <a href="#">KL8x</a>: Kinetis® KL8x-72/96 MHz Secure Ultra-Low Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</li> <li>• <a href="#">KL3x</a>: Kinetis® KL3x-48 MHz, Segment LCD Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core</li> </ul> |
| Security (EdgeLock Discrete)            | <ul style="list-style-type: none"> <li>• <a href="#">SE050</a>: EdgeLock® SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility</li> </ul>  |
| Wireless                                | <ul style="list-style-type: none"> <li>• <a href="#">JN5169</a>: ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 KB Flash, 32 KB RAM</li> </ul>   |
| Anti Tamper                             | <ul style="list-style-type: none"> <li>• <a href="#">FXLS8974CF</a>: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer</li> </ul>  |
| RTC                                     | <ul style="list-style-type: none"> <li>• <a href="#">PCF2123</a>: SPI Real-Time Clock/Calendar</li> <li>• <a href="#">PCF2131</a>: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal</li> </ul>   |
| Driver                                  | <ul style="list-style-type: none"> <li>• <a href="#">PCF85133U</a>: Universal LCD Driver for Low Multiplex Rates</li> </ul>   |
| Power Management                        | <ul style="list-style-type: none"> <li>• <a href="#">PCA9410_9410A</a>: 3.0 MHz, 500 MA, DC-to-DC Boost Converter</li> </ul>  |
| NFC                                     | <ul style="list-style-type: none"> <li>• <a href="#">PN5190</a>: NFC Frontend supporting challenging RF environment for payment, physical access control</li> </ul>   |

View our complete solution for [Water Meter](#).

**Note:** The information on this document is subject to change without notice.

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