



Automotive Gas Meter

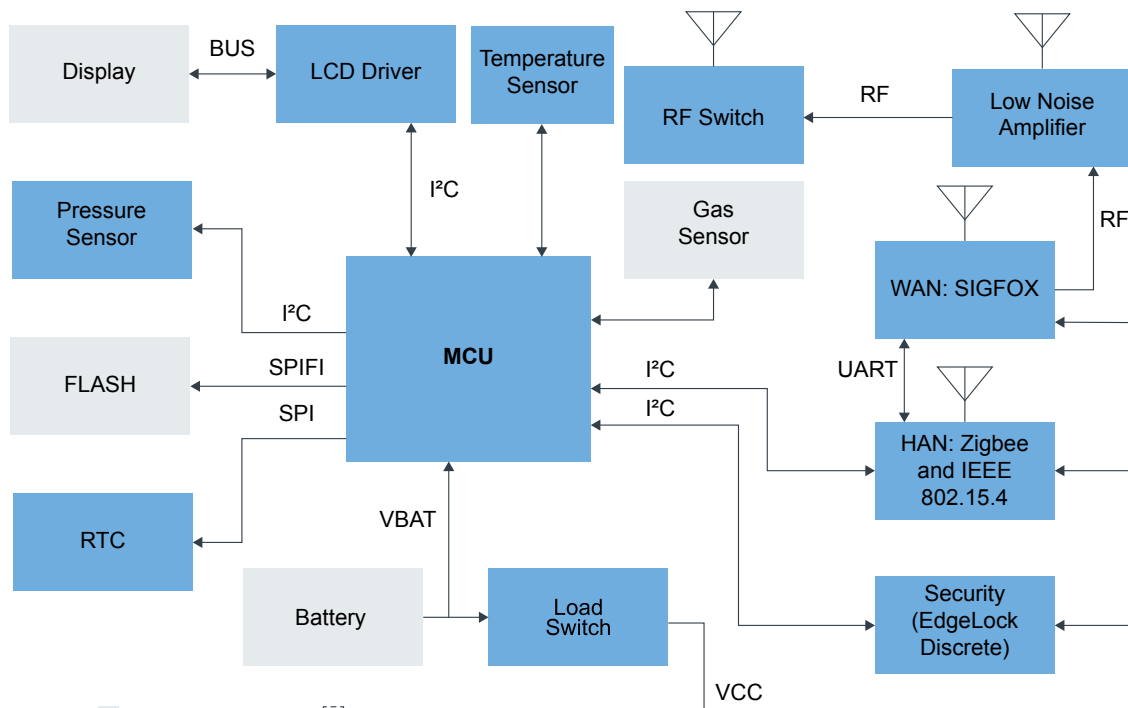
Last Updated: May 23, 2023

NXP® connectivity solutions for smart metering address the challenges Smart Cities face for reliable, secure communications for remote metering and home energy management. Gas and Water meters are used in every establishment that consumes fuel gas and with water supply such as commercial, residential, and industrial.

Flow meters help Smart Cities measure the volume of gas 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.

Automotive Gas Meter Block Diagram



Recommended Products for Automotive Gas Meter

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|-----------------|--|
| MCU | <ul style="list-style-type: none"> • LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm[®] Cortex[®]-M4 Core |
| Pressure Sensor | <ul style="list-style-type: none"> • NBP8-9x: Highly Integrated Battery Pressure Monitor Sensor • FXPS7xx0D4: Digital Absolute Pressure Sensor (20 to 550 kPa) • FXPS7xx0A4: Analog Absolute Pressure Sensor (20 to 550 kPa) • MPXx6115: Gauge and Absolute Pressure Sensor (-115 to 115 kPa) • MPXx4115: Vacuum Integrated Pressure Sensor (-115 to 115 kPa) |
| RTC | <ul style="list-style-type: none"> • PCF2123: SPI Real-Time Clock/Calendar • PCF2131: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal |

| | |
|------------------------------|--|
| LCD Driver | <ul style="list-style-type: none"> • PCF85133U: Universal LCD Driver for Low Multiplex Rates |
| Load Switch | <ul style="list-style-type: none"> • NX3P2902BUK: Logic-Controlled High-Side Power Switch |
| Security (EdgeLock Discrete) | <ul style="list-style-type: none"> • EdgeLock[®] SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility |
| Home Area Network | <ul style="list-style-type: none"> • JN5169: ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 KB Flash, 32 KB RAM • K32W061/41: High-Performance, Secure and Ultra-Low-Power MCU for Zigbee[®], Thread[™], and Bluetooth[®] LE 5.0 with Built-In NFC Option |
| Wide Area Network | <ul style="list-style-type: none"> • OL2385AHN: Low-Power Multi-Channel UHF RF Wireless Platform |
| Low noise amplifier | <ul style="list-style-type: none"> • BGS8L2: SiGe:C Low-Noise Amplifier MMIC with Bypass Switch for LTE |
| RF Switch (LTE) | <ul style="list-style-type: none"> • NX3P2902BUK: Logic-Controlled High-Side Power Switch • SA630D: Single-Pole Double-Throw (SPDT) Switch |
| Load Switch | <ul style="list-style-type: none"> • NX3P2902BUK: Logic-Controlled High-Side Power Switch |
| Temperature Sensor | <ul style="list-style-type: none"> • P3T1750DP: I³C/I²C-Bus, ±1 °C Accuracy, Digital Temperature Sensor • P3T1755DP: I³C/I²C-Bus ±0.5 °C Accurate Digital Temperature Sensor • P3T1085UK: I³C/I²C-Bus ±0.5 °C Accurate Digital Temperature Sensor • P3T1084UK: I³C/I²C-Bus ±0.4 °C Accurate Digital Temperature Sensor |

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

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