

Automotive Gas Meter

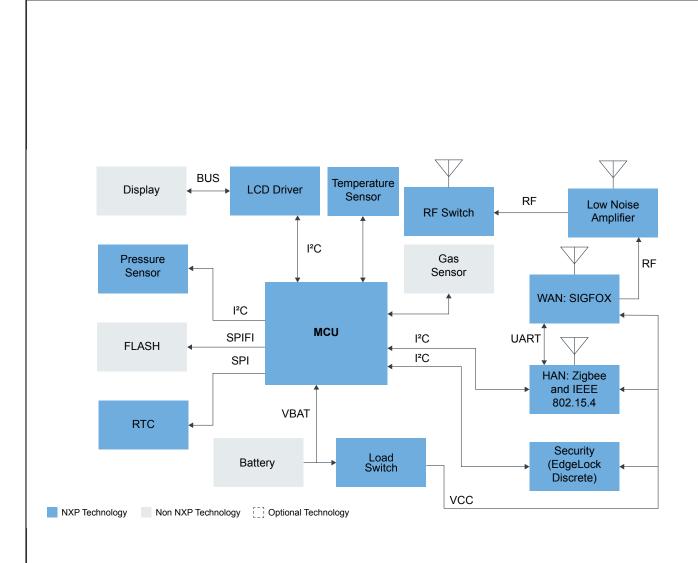
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NXP® connectivity solutions for smart metering address the challenges Smart Cities face for reliable, secure communications for remote metering and home energy management. Gas and Water meters are used in every establishment that consumes fuel gas 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	
MCU	* LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm [®] Cortex [®] -M4 Core
Pressure Sensor	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	PCF2123: SPI Real-Time Clock/Calendar PCF2131: Nano-Power Highly Accurate RTC with Integrated Quartz Crystal

LCD Driver	PCF85133U: Universal LCD Driver for Low Multiplex Rates
Load Switch	NX3P2902BUK: Logic-Controlled High-Side Power Switch
Security (EdgeLock Discrete)	* SE050: EdgeLock [®] SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility
Home Area Network	 JN5169: ZigBee and IEEE802.15.4 Wireless Microcontroller with 512 KB Flash, 32 KB RAM K32W061_41: K32W061/41: High-Performance, Secure and Ultra-Low-Power MCU for Zigbee[®], Thread TM, and Bluetooth[®] LE 5.0 with Built-In NFC Option
Wide Area Network	OL2385AHN: Low-Power Multi-Channel UHF RF Wireless Platform
Low noise amplifier	BGS8L2: SiGe:C Low-Noise Amplifier MMIC with Bypass Switch for LTE
RF Switch (LTE)	NX3P2902BUK: Logic-Controlled High-Side Power Switch
Load Switch	NX3P2902BUK: Logic-Controlled High-Side Power Switch
Temperature Sensor	 P3T1035xUK: I3C, I²C-Bus, ±0.5 °C Accuracy, Digital Temperature Sensor P3T2030xUK: I3C, I²C-Bus, ±0.0 °C Accuracy, Digital Temperature Sensor 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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