

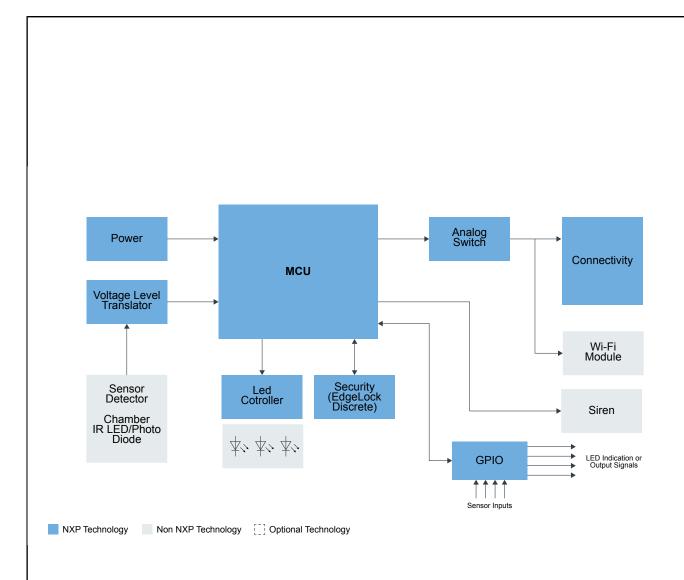
Building Safety

Last Updated: Mar 14, 2024

Smoke detectors are a vital safety feature of any home or building. They incorporate sensors to detect smoke, fire, carbon monoxide, and other noxious fumes.

Detectors are also becoming more intelligent as they seamlessly connect wirelessly with each other as well as to other parts of a building automation system. Working together with a thermostat and home automation or building gateway, these devices can alert individuals and authorities quicker, reducing the alert time and avoiding property damage and casualties.

Building Safety Block Diagram



Recommended Products for Building Safety ** KM3x: 50–75 MHz Precision Metrology MCUs with Segment LCDs Based on Arm® Cortex®-M0+ ** LPC800 Arm Cortex-M0+ : LPC800 Series: Low-Cost Arm® Cortex®-M0+-Based MCUs ** 88W8977: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution ** QN9090-30: QN9090/30: Bluetooth Low-Energy MCU with Arm®Cortex®-M4 CPU, Energy Efficiency, Analog and Digital Peripherals and NFC Tag Option ** TEA1721AT: HV Start-Up Flyback Controller with Integrated MOSFET for 5 W Applications, F~burst = 430 Hz

Voltage Level Traslator	GTL2014PW: 4-Bit LVTTL-to-GTL Transceiver
LED Controller	PCA9632: 4-Bit Fm+ I²C-Bus Low-Power LED Driver
Analog Switch	NX3DV3899: Dual Double-Pole Double-Throw Analog Switch
Security (EdgeLock Discrete)	* SE050: EdgeLock [®] SE050: Plug and Trust Secure Element Family – Enhanced IoT security with high flexibility * SE051: EdgeLock [®] SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets * EDGELOCK-A5000: EdgeLock [®] A5000 Plug and Trust Secure Authenticator: Authentication Made Secure, Scalable and Easy
Air Conditioning GPIO	PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features
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Air Conditioning GPIO	MCX-A14X-A15X: MCX A14x/15x MCUs with Arm® Cortex® M33, Scalable Device Options, Low Power and Intelligent Peripherals MCX-N94X-N54X: MCX N94x/54x Highly Integrated Multicore MCUs with On-Chip Accelerators, Intelligent Peripherals and Advanced Security PCAL9714: 14-Bit SPI I/O Expander with Agile I/O Features PCAL9722: 22-Bit SPI I/O Expander with Agile I/O Features

View our complete solution for Building Safety.

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

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