

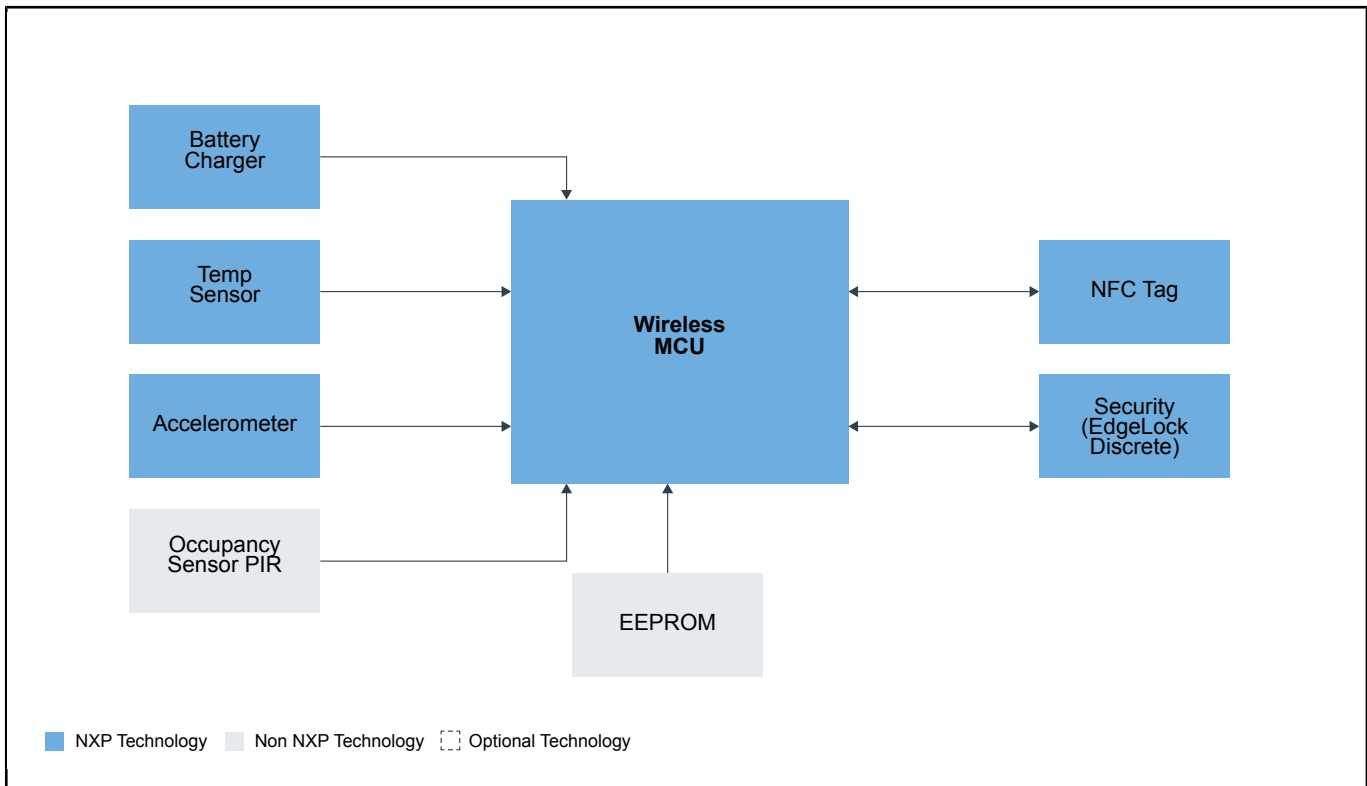


# Building Security

Last Updated: Apr 18, 2024

NXP's wide portfolio offers a number of options for buildings security solutions. Our wireless MCUs are the choice when a battery-powered, occupancy sensor or a surveillance low-power system is required. The cost-effective crossover i.MX RT MCUs offer a great solution for video processing and data management for wireless IP video cameras. NXP's WIFI 6 modules ensure low latency and high-quality connection for IP cameras solutions.

## Wireless Occupancy Sensor Block Diagram

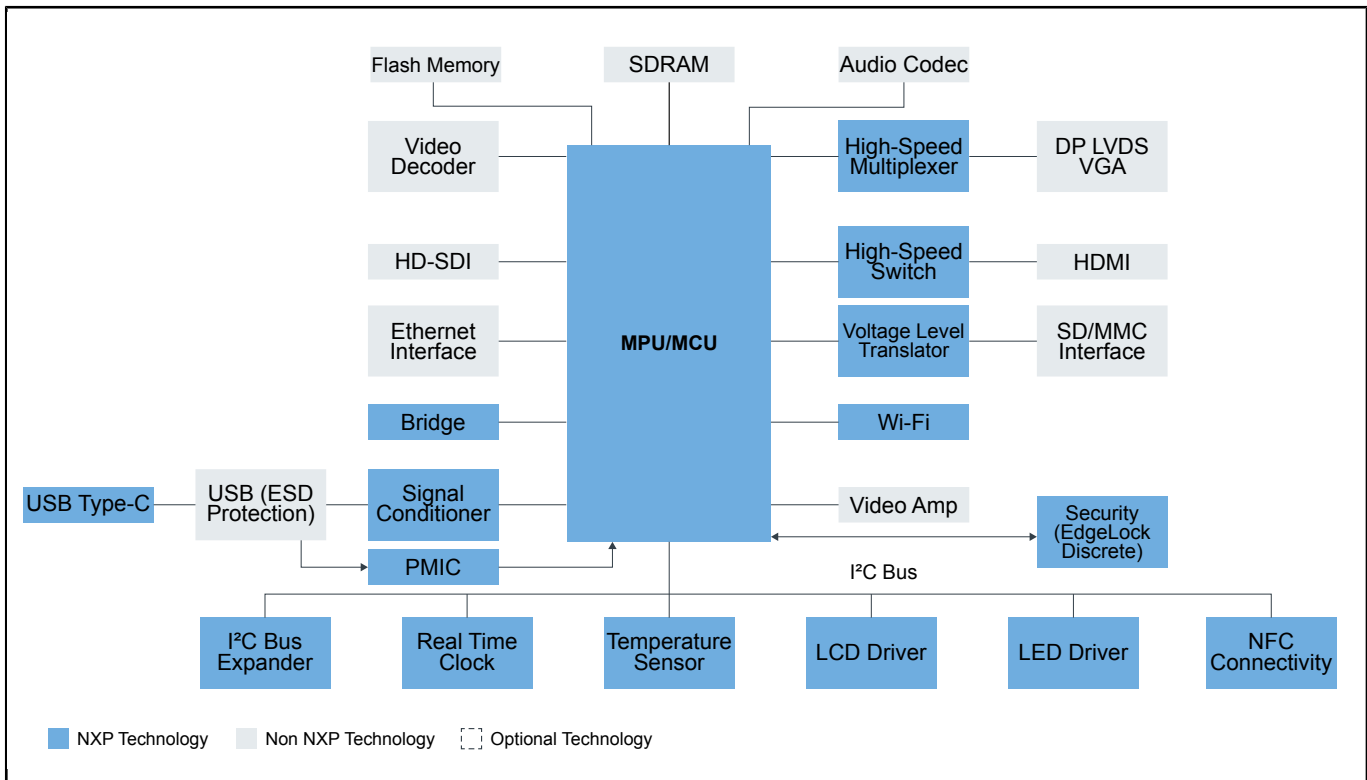


### Recommended Products for Wireless Occupancy Sensor

<p>Wireless MCU</p>	<ul style="list-style-type: none"> <li>• <a href="#">MCX-A14X-A15X</a>: MCX A14x/15x MCUs with Arm® Cortex® M33, Scalable Device Options, Low Power and Intelligent Peripherals</li> <li>• <a href="#">MCX-N94X-N54X</a>: MCX N94x/54x Highly Integrated Multicore MCUs with On-Chip Accelerators, Intelligent Peripherals and Advanced Security</li> <li>• <a href="#">JN5189_88_T</a>: JN5189/88 (T): High-Performance and Ultra-Low-Power MCUs for Zigbee® and Thread with Built-In NFC Option</li> </ul>
---------------------	--

	<ul style="list-style-type: none"> <li>• <a href="#">QN9090-30</a>: QN9090/30: Bluetooth Low-Energy MCU with Arm®Cortex®-M4 CPU, Energy Efficiency, Analog and Digital Peripherals and NFC Tag Option</li> </ul>
Battery Charger	<ul style="list-style-type: none"> <li>• <a href="#">BC3770</a>: 2 A Switch-Mode Li-ion/Li-polymer Battery Charger</li> </ul>
NFC Tag	<ul style="list-style-type: none"> <li>• <a href="#">NTAG5-LINK</a>: NTAG® 5 Link: NFC Forum-Compliant I<sup>2</sup>C Bridge for IoT on Demand</li> </ul>
Temperature Sensor	<ul style="list-style-type: none"> <li>• <a href="#">P3T1035xUK</a>: I3C, I<sup>2</sup>C-Bus, ±0.5 °C Accuracy, Digital Temperature Sensor</li> <li>• <a href="#">P3T2030xUK</a>: I3C, I<sup>2</sup>C-Bus, 2.0 °C Accuracy, Digital Temperature Sensor</li> <li>• <a href="#">PCT2202UK</a>: Ultra-Low-Power, 1.8 V, 1 Deg. C Accuracy, Digital Temperature Sensor with I<sup>2</sup>C-Bus Interface</li> <li>• <a href="#">LM75B</a>: Digital Temperature Sensor and Thermal Watchdog</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> <li>• <a href="#">SE051</a>: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets</li> </ul>
Accelerometer	<ul style="list-style-type: none"> <li>• <a href="#">Accelerometers</a>: Accelerometers</li> </ul>

## IP Camera Surveillance Block Diagram

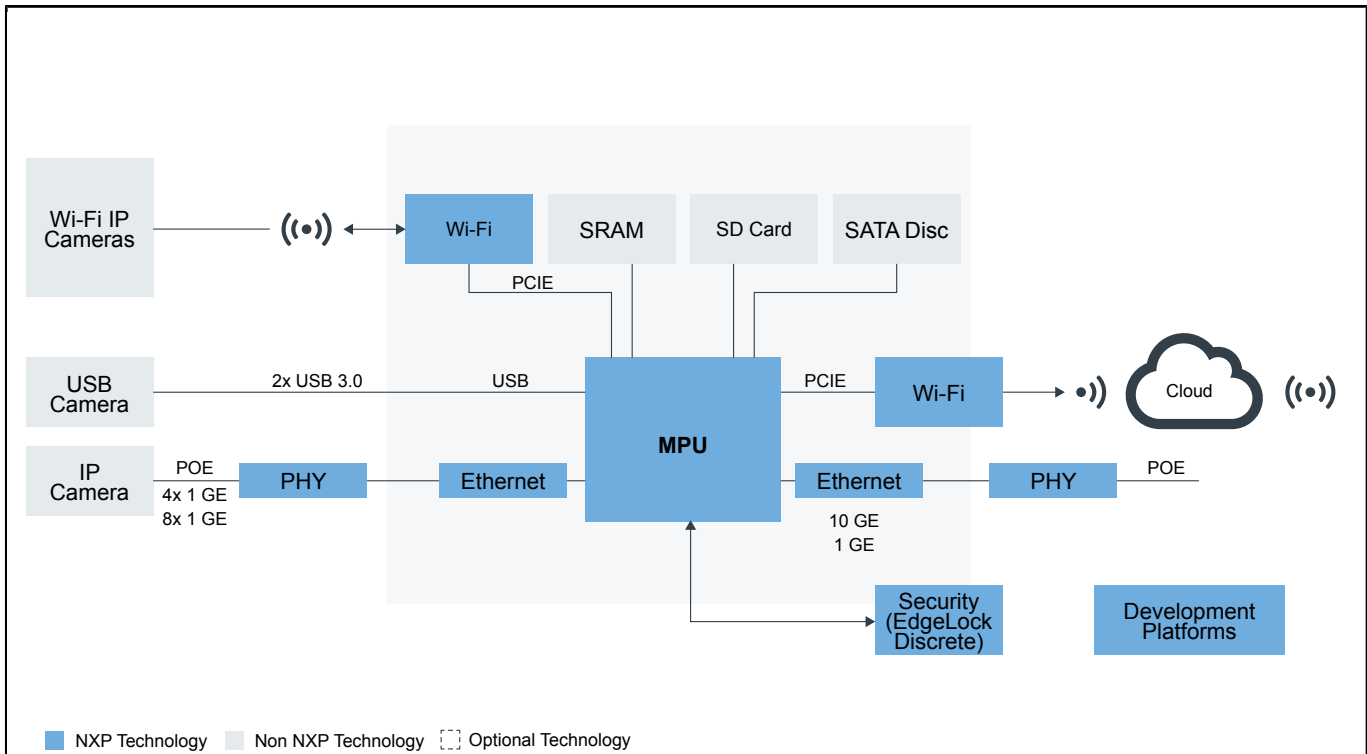


### Recommended Products for IP Camera Surveillance

MPU/MCU	<ul style="list-style-type: none"> <li>• <a href="#">MCX-A14X-A15X</a>: MCX A14x/15x MCUs with Arm® Cortex® M33, Scalable Device Options, Low Power and Intelligent Peripherals</li> <li>• <a href="#">MCX-N94X-N54X</a>: MCX N94x/54x Highly Integrated Multicore MCUs with On-Chip Accelerators, Intelligent Peripherals and Advanced Security</li> <li>• <a href="#">i.MX 8 Applications Processors</a>: i.MX 8 Series Applications Processors Multicore Arm® Cortex® Processors</li> <li>• <a href="#">i.MX7ULP</a>: i.MX 7ULP Family, Ultra-Low-Power with Graphics</li> </ul>
---------	---

	<ul style="list-style-type: none"> <li>• <a href="#">i.MX-RT1060</a>: i.MX RT1060: Crossover MCU with Arm® Cortex®-M7</li> </ul>
NFC Connectivity	<ul style="list-style-type: none"> <li>• <a href="#">NTAG5-LINK</a>: NTAG® 5 Link: NFC Forum-Compliant I²C Bridge for IoT on Demand</li> <li>• <a href="#">NTAG5-BOOST</a>: NTAG® 5 Boost: NFC Forum-Compliant I²C Bridge for Tiny Devices</li> </ul>
Wireless MCU	<ul style="list-style-type: none"> <li>• <a href="#">88W9098</a>: 2.4/5 GHz Dual-Band 2x2 Wi-Fi® 6 (802.11ax) + Bluetooth® 5.3</li> </ul>
Voltage Level Translator	<ul style="list-style-type: none"> <li>• <a href="#">NTS0304E</a>: 4-Bit Dual-Supply Translating Transceiver (Open-Drain, Auto-Direction Sensing)</li> <li>• <a href="#">GTL2014PW</a>: 4-Bit LVTTTL-to-GTL Transceiver</li> </ul>
High-speed Multiplexer	<ul style="list-style-type: none"> <li>• <a href="#">CBTL04083A_CBTL04083B</a>: 3.3 V, Four Differential Channel, 2-1 Multiplexer/Demultiplexer Switch for PCI Express Gen3</li> <li>• <a href="#">CBTL06DP213EE</a>: Third Generation High-Performance DisplayPort Multiplexer</li> <li>• <a href="#">CBTL08GP053EV</a>: USB Type-C High-Performance Crossbar Switch IC</li> </ul>
LED Driver	<ul style="list-style-type: none"> <li>• <a href="#">PCA9624</a>: 8-Bit Fm+ I²C-Bus 100 MA 40 V LED Driver</li> </ul>
LCD Driver	<ul style="list-style-type: none"> <li>• <a href="#">LCD Graphic Drivers</a>: LCD Graphic Drivers</li> </ul>
Real-time Clock	<ul style="list-style-type: none"> <li>• <a href="#">PCA8565</a>: Real-Time Clock/Calendar</li> </ul>
Temperature Sensor	<ul style="list-style-type: none"> <li>• <a href="#">P3T1035xUK</a>: I3C, I²C-Bus, ±0.5 °C Accuracy, Digital Temperature Sensor</li> <li>• <a href="#">P3T2030xUK</a>: I3C, I²C-Bus, 2.0 °C Accuracy, Digital Temperature Sensor</li> <li>• <a href="#">PCT2202UK</a>: Ultra-Low-Power, 1.8 V, 1 Deg. C Accuracy, Digital Temperature Sensor with I²C-Bus Interface</li> <li>• <a href="#">LM75B</a>: Digital Temperature Sensor and Thermal Watchdog</li> </ul>
I2C Bus Expander	<ul style="list-style-type: none"> <li>• <a href="#">General Purpose I/O (GPIO)</a>: General Purpose I/O (GPIO)</li> </ul>
USB Type-C	<ul style="list-style-type: none"> <li>• <a href="#">PTN5110</a>: USB PD TCPC PHY IC</li> <li>• <a href="#">PTN5150</a>: CC Logic for USB Type-C Applications</li> </ul>
High-speed Switch	<ul style="list-style-type: none"> <li>• <a href="#">CBTL08GP053EV</a>: USB Type-C High-Performance Crossbar Switch IC</li> <li>• <a href="#">CBTL06DP213EE</a>: Third Generation High-Performance DisplayPort Multiplexer</li> <li>• <a href="#">CBTL06GP213EE</a>: Second Generation High-Performance General Purpose Switch</li> </ul>
Signal Conditioner	<ul style="list-style-type: none"> <li>• <a href="#">PTN36043x</a>: USB Type-C SuperSpeed Active Switch</li> <li>• <a href="#">PTN36502</a>: Type-C USB 3.1 Gen 1 and DisplayPort V1.2 Combo Redriver</li> </ul>
Bridge	<ul style="list-style-type: none"> <li>• <a href="#">Bridges</a>: Bridge IC Solutions</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> <li>• <a href="#">SE051</a>: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets</li> <li>• <a href="#">EDGELOCK-A5000</a>: EdgeLock® A5000 Plug and Trust Secure Authenticator: Authentication Made Secure, Scalable and Easy</li> </ul>
PMIC	<ul style="list-style-type: none"> <li>• <a href="#">PCA9460</a>: 13-Channel Power Management Integrated Circuit (PMIC) for Ultra Low Power Application</li> </ul>

## Surveillance System Block Diagram



### Recommended Products for Surveillance System

Layerscape SoC	<ul style="list-style-type: none"> <li>• <a href="#">LS1046A</a>: Layerscape® 1046A and 1026A Processors</li> <li>• <a href="#">LX2160A</a>: Layerscape® LX2160A, LX2120A, LX2080A Processors</li> </ul>
Development Platforms	<ul style="list-style-type: none"> <li>• <a href="#">eIQ ML Development Environment</a>: eIQ® ML Software Development Environment</li> </ul>
Ethernet PHY	<ul style="list-style-type: none"> <li>• <a href="#">F104S8A</a>: F104S8A Four-port Gigabit Ethernet Copper PHY</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> <li>• <a href="#">SE051</a>: EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets</li> </ul>
Wi-Fi	<ul style="list-style-type: none"> <li>• <a href="#">88W9068</a>: 2.4/5 GHz Dual-Band 8x8 Wi-Fi® 6 (802.11ax) Access Solution</li> </ul>
Ethernet PHY	<ul style="list-style-type: none"> <li>• <a href="#">F104S8A</a>: F104S8A Four-port Gigabit Ethernet Copper PHY</li> </ul>

View our complete solution for [Building Security](#).

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

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2024 NXP B.V.