



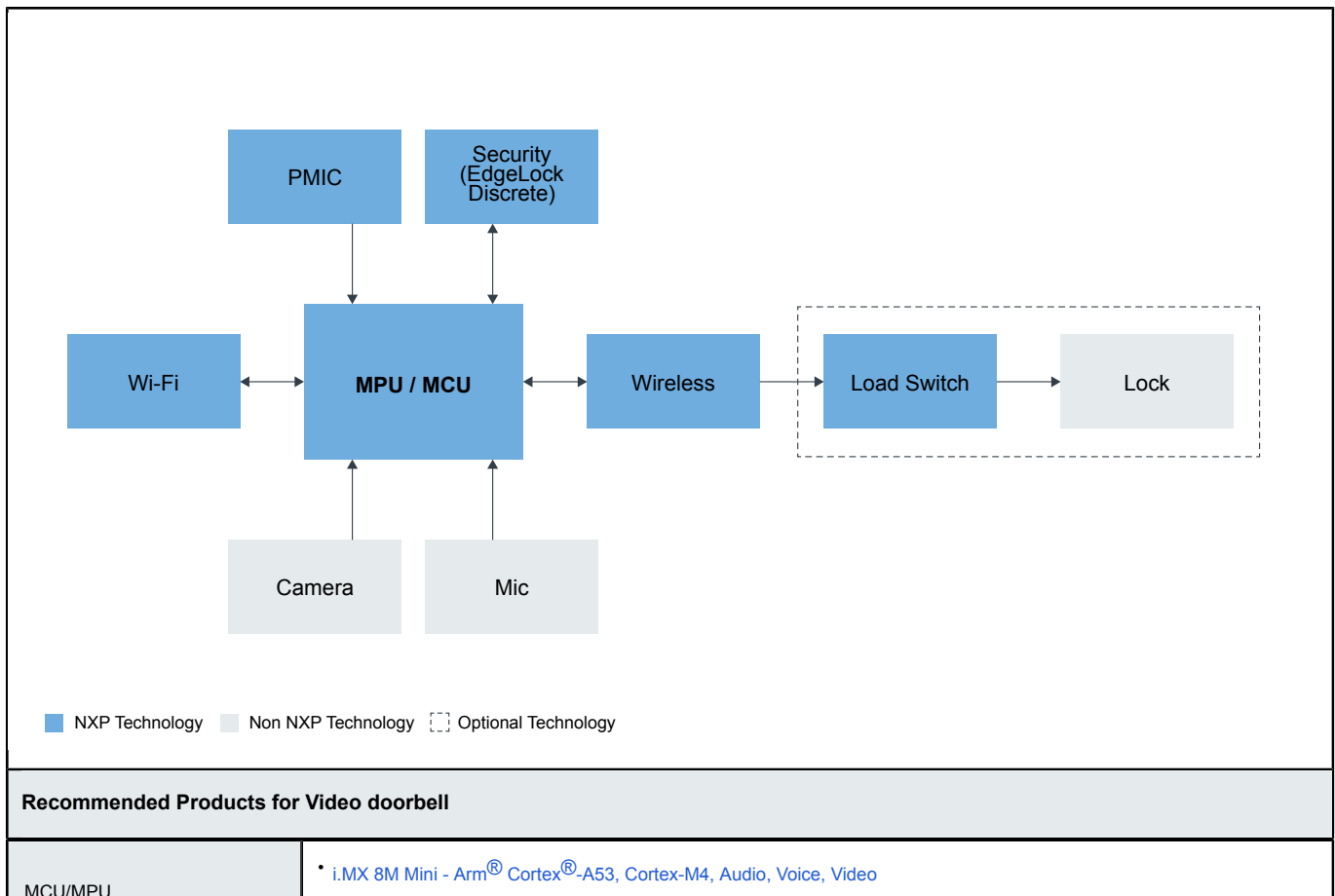
Home Security and Surveillance

Last Updated: Oct 11, 2022

Today's doorbell does much more than just ring a buzzer to alert you that somebody is at the door. They are a vital part of the smart home and security solution, providing intercom capability as well as video surveillance of a home's entryway.

Connecting a video doorbell to the home gateway provides cloud access, meaning you can now monitor your entryway from anywhere in the world in real time. Video doorbells provide easy-to-use security and peace of mind when trying to secure your home from external threats.

Video doorbell Block Diagram



	<ul style="list-style-type: none"> • i.MX RT1170 First GHz Crossover MCU with Arm® Cortex®-M7 and Cortex-M4 Cores
PMIC	<ul style="list-style-type: none"> • PCA9450: Power Management IC (PMIC) for i.MX 8M Mini/Nano/Plus • PF8100-PF8200: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Processing Applications • PCA9460: 13-Channel Power Management Integrated Circuit (PMIC) for Ultra Low Power Application
Wi-Fi	<ul style="list-style-type: none"> • 88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 5 (802.11ac) + Bluetooth® 5.2 Solution • 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® 5.2 Solution • 88MW32X 802.11n Wi-Fi® Microcontroller SoC
Wireless	<ul style="list-style-type: none"> • 88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi® 5 (802.11ac) + Bluetooth® 5.2 Solution • QN9020/21/22 - Ultra-Low-Power Bluetooth LE System-On-Chip Solution
Load Switch	<ul style="list-style-type: none"> • NX30P6093: High-Voltage I²C Controlled Overvoltage Protection Load Switch
Security (EdgeLock Discrete)	<ul style="list-style-type: none"> • EdgeLock® SE050: Plug & Trust Secure Element Family – Enhanced IoT security with high flexibility • EdgeLock® SE051: Proven, Easy-to-Use IoT Security Solution with Support for Updatability and Custom Applets • EdgeLock® A5000 Plug & Trust Secure Authenticator: Authentication Made Secure, Scalable and Easy

View our complete solution for [Home Security and Surveillance](#).

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

www.nxp.com

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. © 2023 NXP B.V.