



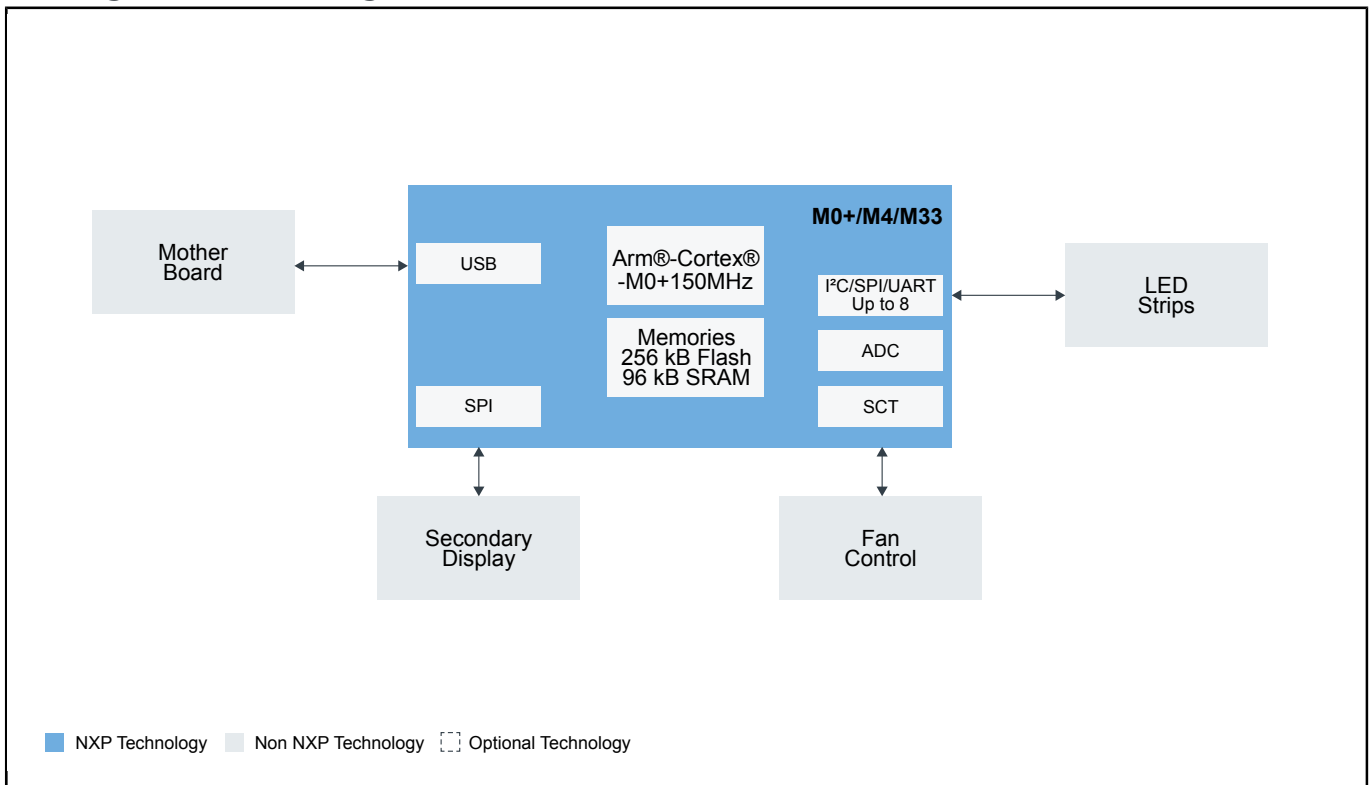
Gaming Accessories

Last Updated: Nov 12, 2021

With the increasing usage of mobile, consoles and the cloud, the gaming market is growing across the world. NXP’s comprehensive product portfolio across MCU, applications processors and wireless connectivity enables a wide range of wired and wireless gaming accessories such as headsets, mice, keyboards, surfaces, controllers and the like.

NXP’s new generation MCUs have integrated high-speed USB with built-in PHY and a hardware accelerator to reduce latency and boost performance with low power consumption. Our low-latency wireless connectivity technology for gaming headsets achieves real-time audio playback. Our hardware, software and enablement tools enable quick development and next-level results.

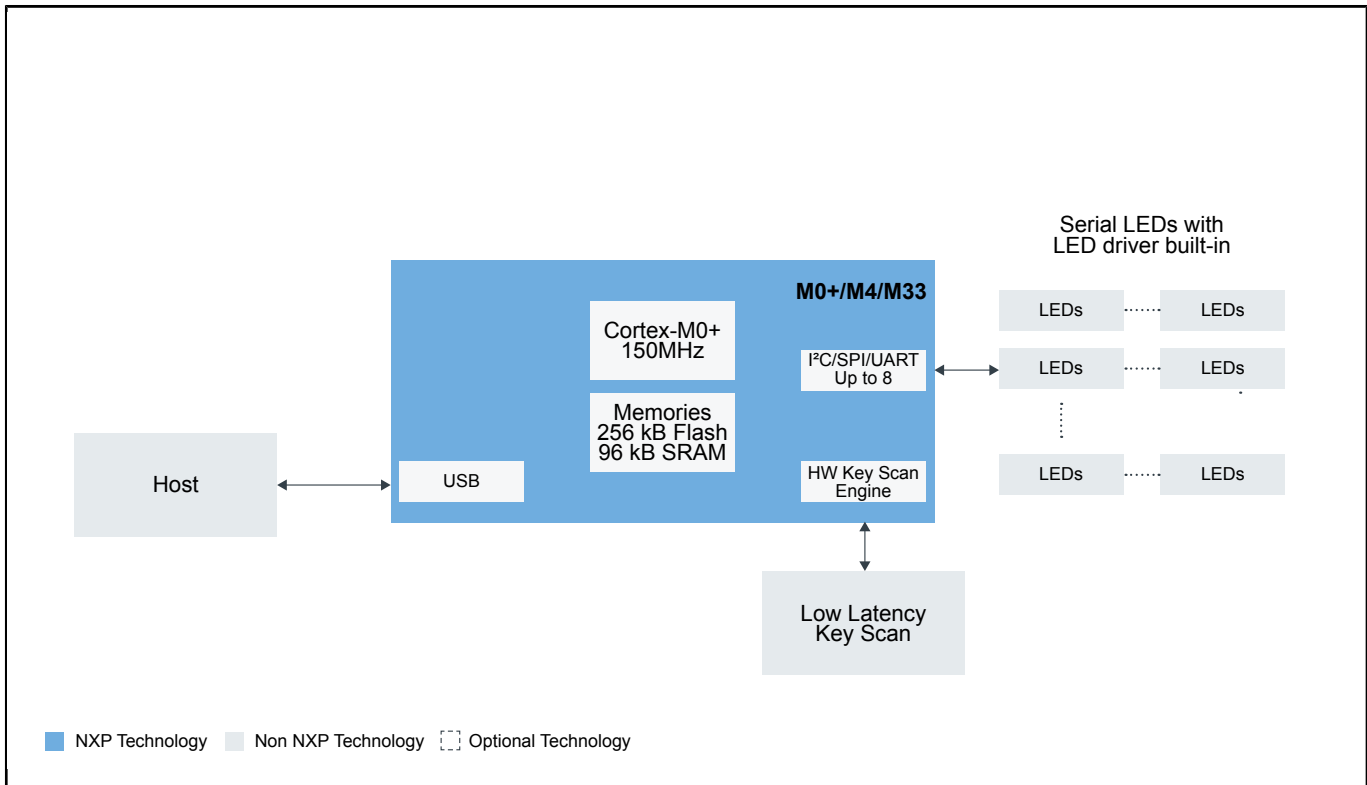
Gaming Case Block Diagram



Recommended Products for Gaming Case

MCU	<ul style="list-style-type: none"> • LPC11U00: Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0+ and Cortex®-M0 Cores • LPC51U68: High-performance, Power-efficient and Cost Sensitive Arm® Cortex®-M0+ MCUs • LPC541XX: Low-Power Microcontrollers (MCUs) Based on Arm® Cortex®-M4 Cores With Optional Cortex®-M0+ Co-processor • LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm® Cortex®-M4 Core • LPC5500 Cortex-M33: LPC5500 Series: Arm® Cortex®-M33 based Microcontroller Series for Mass Market, Leveraging 40nm Embedded Flash Technology
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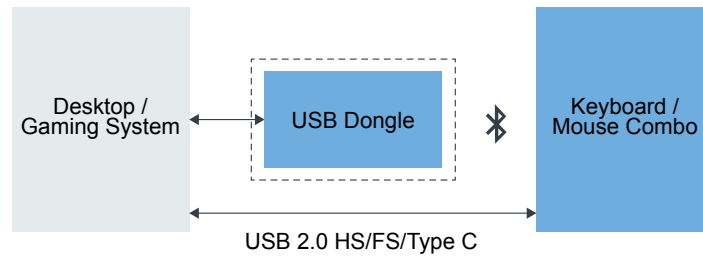
Gaming Keyboard Block Diagram



Recommended Products for Gaming Keyboard

<p>MCU</p>	<ul style="list-style-type: none"> • LPC11U00: Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm® Cortex®-M0+ and Cortex®-M0 Cores • LPC51U68: High-performance, Power-efficient and Cost Sensitive Arm® Cortex®-M0+ MCUs • LPC541XX: Low-Power Microcontrollers (MCUs) Based on Arm® Cortex®-M4 Cores With Optional Cortex®-M0+ Co-processor • LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm® Cortex®-M4 Core • LPC5500 Cortex-M33: LPC5500 Series: Arm® Cortex®-M33 based Microcontroller Series for Mass Market, Leveraging 40nm Embedded Flash Technology
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Keyboard and Mouse Block Diagram

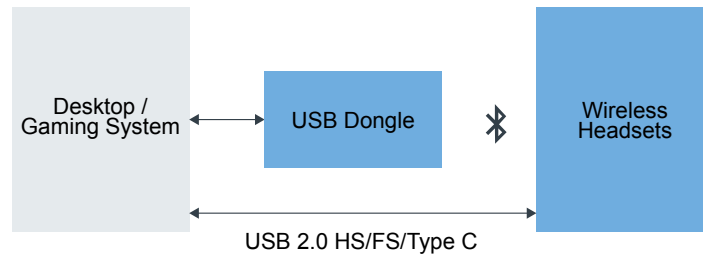


■ NX Technology
 ■ Non NX Technology
 Optional Technology

Recommended Products for Keyboard and Mouse

USB Dongle	<ul style="list-style-type: none"> • QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution
Keyboard/Mouse	<ul style="list-style-type: none"> • QN9090/30: Bluetooth Low-Energy MCU with Arm®Cortex®-M4 CPU, Energy Efficiency, Analog and Digital Peripherals and NFC Tag Option • PTN5150: CC Logic for USB Type-C Applications • LPC5500 Cortex-M33: LPC5500 Series: Arm® Cortex®-M33 based Microcontroller Series for Mass Market, Leveraging 40nm Embedded Flash Technology

Low-Latency Headsets Block Diagram

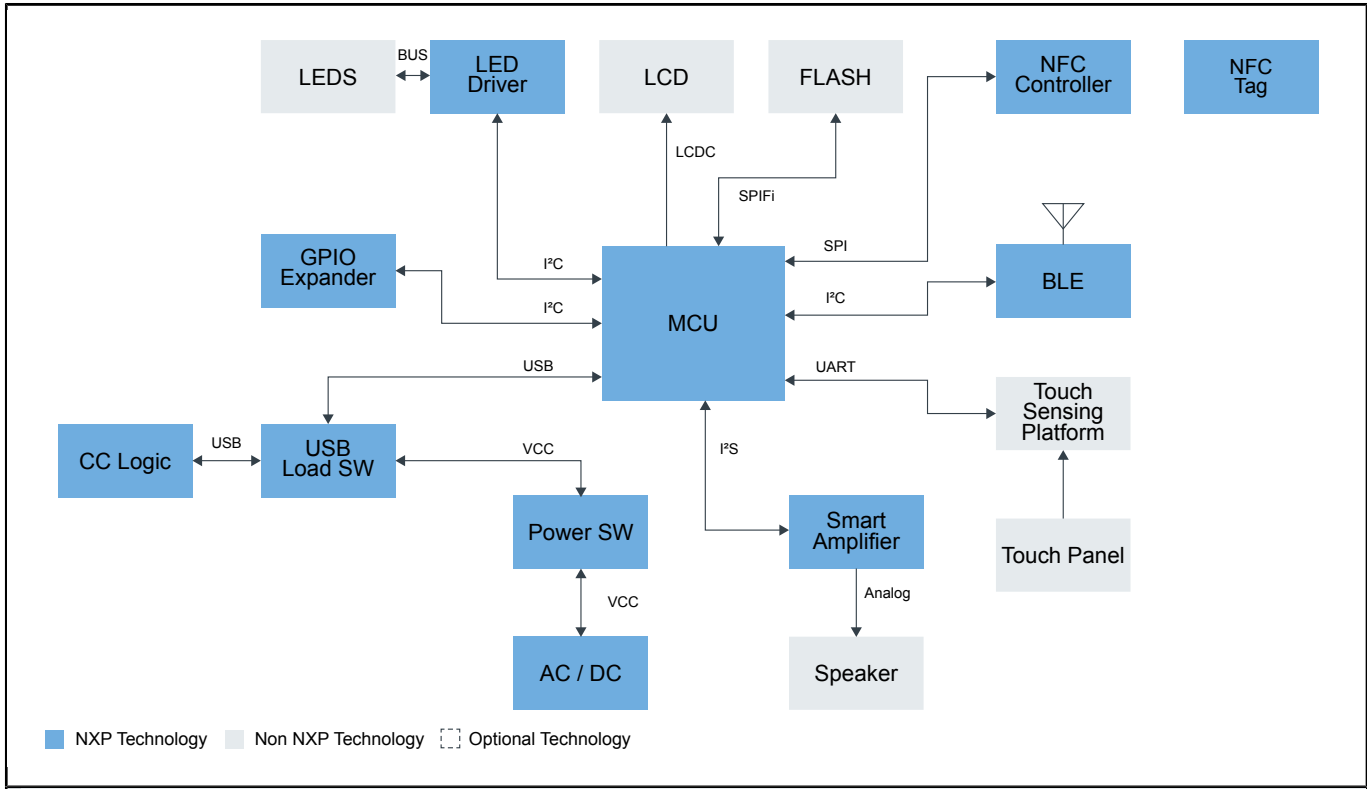


■ NXP Technology
 ■ Non NXP Technology
 Optional Technology

Recommended Products for Low-Latency Headsets

USB Dongle	<ul style="list-style-type: none"> • NXH3670: Ultra-low Power, Low Latency Audio for Wireless Gaming Headphone • KL2x: Kinetis® KL2x-72/96 MHz, USB Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core • LPC5500 Cortex-M33: LPC5500 Series: Arm® Cortex®-M33 based Microcontroller Series for Mass Market, Leveraging 40nm Embedded Flash Technology
Wireless Headsets	<ul style="list-style-type: none"> • NXH3670: Ultra-low Power, Low Latency Audio for Wireless Gaming Headphone • KL2x: Kinetis® KL2x-72/96 MHz, USB Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core

Gamepad Block Diagram



Recommended Products for Gamepad

MCU	<ul style="list-style-type: none"> • LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm[®] Cortex[®]-M4 Core
Drivers	<ul style="list-style-type: none"> • PCA9955BTW: 16-Channel Fm+ I²C-Bus 57 MA/20 V Constant-Current LED Driver • TEA1721AT: HV Start-Up Flyback Controller with Integrated MOSFET for 5 W Applications, F~burst = 430 Hz • NX5P2190UK: Logic-Controlled High-Side Power Switch
USB	<ul style="list-style-type: none"> • NX5P3290UK: USB PD and Type-C Current-Limited Power Switch • PTN5150: CC Logic for USB Type-C Applications
Wireless	<ul style="list-style-type: none"> • PN7150: High-Performance NFC Controller with Integrated Firmware for Smart Devices • NTAG213F, NTAG216F: NFC Forum Type 2 Tag Compliant IC with 144/888 B User Memory and Field Detection • QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution
GPIO Expander	<ul style="list-style-type: none"> • PCAL9554B_PCAL9554C: Low-Voltage 8-Bit I²C-Bus and SMBus Low-Power I/O Port with Interrupt, Weak Pull-Up and Agile I/O
Wireless	<ul style="list-style-type: none"> • PN7150: High-Performance NFC Controller with Integrated Firmware for Smart Devices • NTAG213F, NTAG216F: NFC Forum Type 2 Tag Compliant IC with 144/888 B User Memory and Field Detection • QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution
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Drivers	<ul style="list-style-type: none"> • PCA9955BTW: 16-Channel Fm+ I²C-Bus 57 MA/20 V Constant-Current LED Driver • TEA1721AT: HV Start-Up Flyback Controller with Integrated MOSFET for 5 W Applications, F~burst = 430 Hz • NX5P2190UK: Logic-Controlled High-Side Power Switch
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View our complete solution for [Gaming Accessories](#).

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