

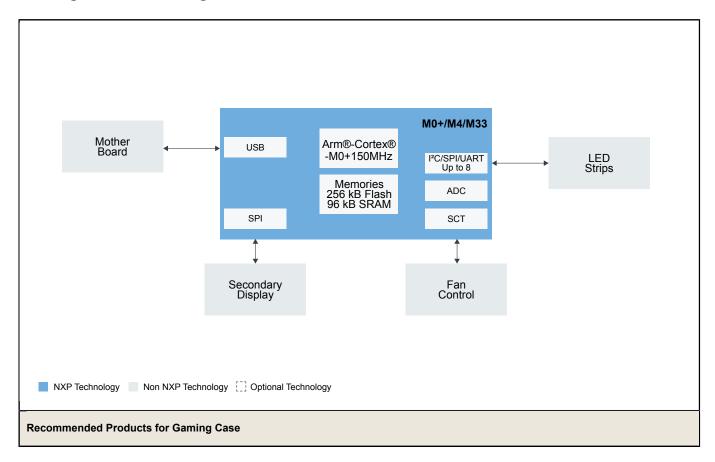
Gaming Accessories

Last Updated: Mar 21, 2023

NXP's comprehensive edge computing portfolio extends across general-purpose LPC and Kinetis MCUs, i.MX RT crossover MCUs and i.MX applications processors based on Arm® Cortex®-M and A class cores, multicore architectures, hardware accelerators, coprocessors, on-chip USB controllers, multimedia interfaces and rich peripheral sets. Our wireless SoCs and ICs support a broad array of connectivity options including Bluetooth® Low Energy, Wi-Fi, ultra-wideband (UWB), near field communication (NFC) and MiGLO technology with near field magnetic induction (NFMI).

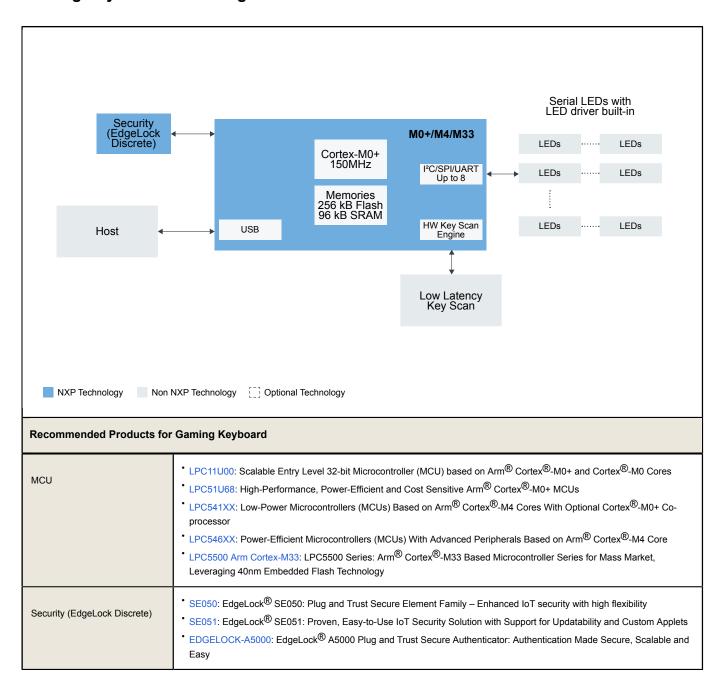
NXP offers developers the silicon, software and support they need to create a wide range of wired and wireless gaming accessories including consoles, controllers and gamepads, AR/VR headsets, hearables, gaming cases, and keyboards and mice.

Gaming Case Block Diagram

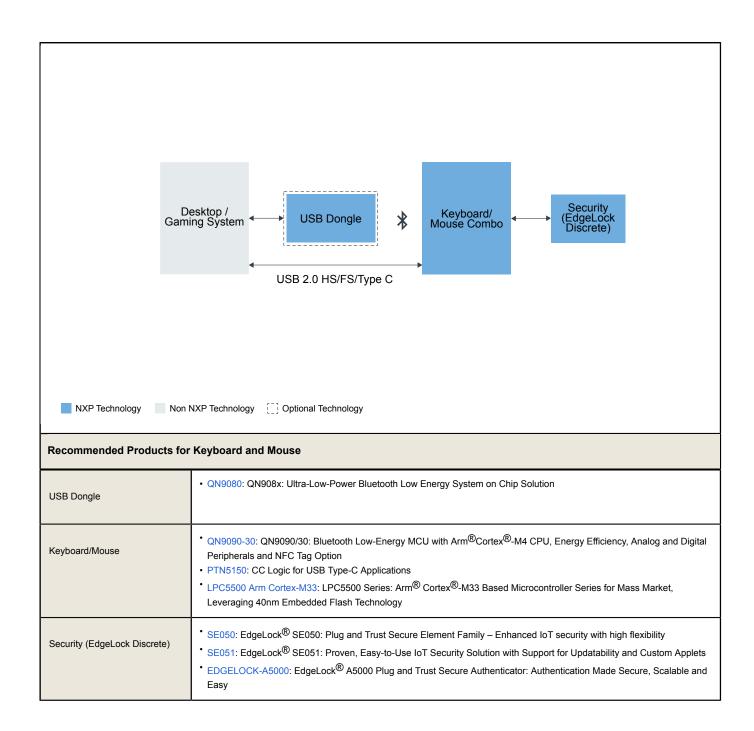


MCU	 LPC11U00: Scalable Entry Level 32-bit Microcontroller (MCU) based on Arm[®] Cortex[®]-M0+ and Cortex[®]-M0 Cores LPC51U68: High-Performance, Power-Efficient and Cost Sensitive Arm[®] Cortex[®]-M0+ MCUs LPC541XX: Low-Power Microcontrollers (MCUs) Based on Arm[®] Cortex[®]-M4 Cores With Optional Cortex[®]-M0+ Co-
	LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm [®] Cortex [®] -M4 Core LPC5500 Arm Cortex-M33: LPC5500 Series: Arm [®] Cortex [®] -M33 Based Microcontroller Series for Mass Market, Leveraging 40nm Embedded Flash Technology

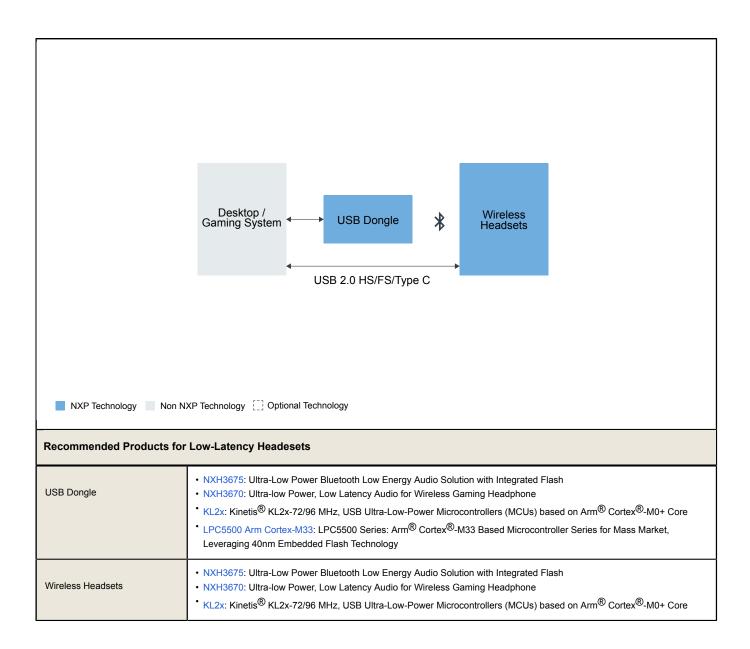
Gaming Keyboard Block Diagram



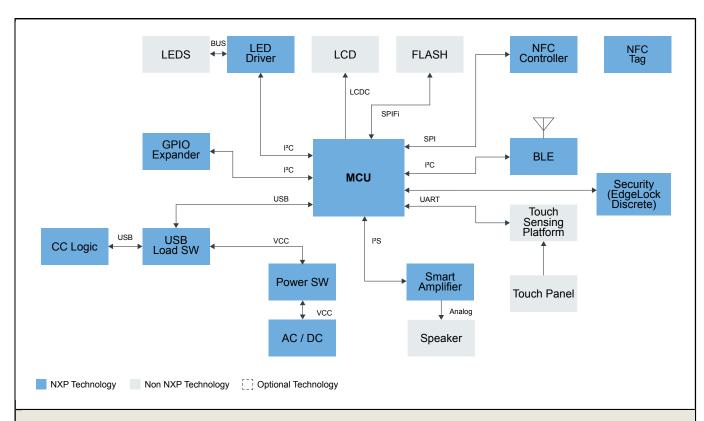
Keyboard and Mouse Block Diagram



Low-Latency Headesets Block Diagram



Gamepad Block Diagram



Recommended Products for Gamepad

MCU	• LPC546XX: Power-Efficient Microcontrollers (MCUs) With Advanced Peripherals Based on Arm [®] Cortex [®] -M4 Core
Drivers	PCA9955BTW: 16-Channel Fm+ I ² C-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
USB	NX5P3290UK: USB PD and Type-C Current-Limited Power Switch PTN5150: CC Logic for USB Type-C Applications
Wireless	PN7160: NFC Plug and Play Controller with Integrated Firmware and NCI Interface NTAG213F_216F: NTAG213F, NTAG216F: NFC Forum Type 2 Tag Compliant IC with 144/888 B User Memory and Field Detection QN9080: QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution
GPIO Expander	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	PN7160: NFC Plug and Play Controller with Integrated Firmware and NCI Interface NTAG213F_216F: NTAG213F, NTAG216F: NFC Forum Type 2 Tag Compliant IC with 144/888 B User Memory and Field Detection QN9080: QN908x: Ultra-Low-Power Bluetooth Low Energy System on Chip Solution
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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

View our complete solution for Gaming Accessories.

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

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