



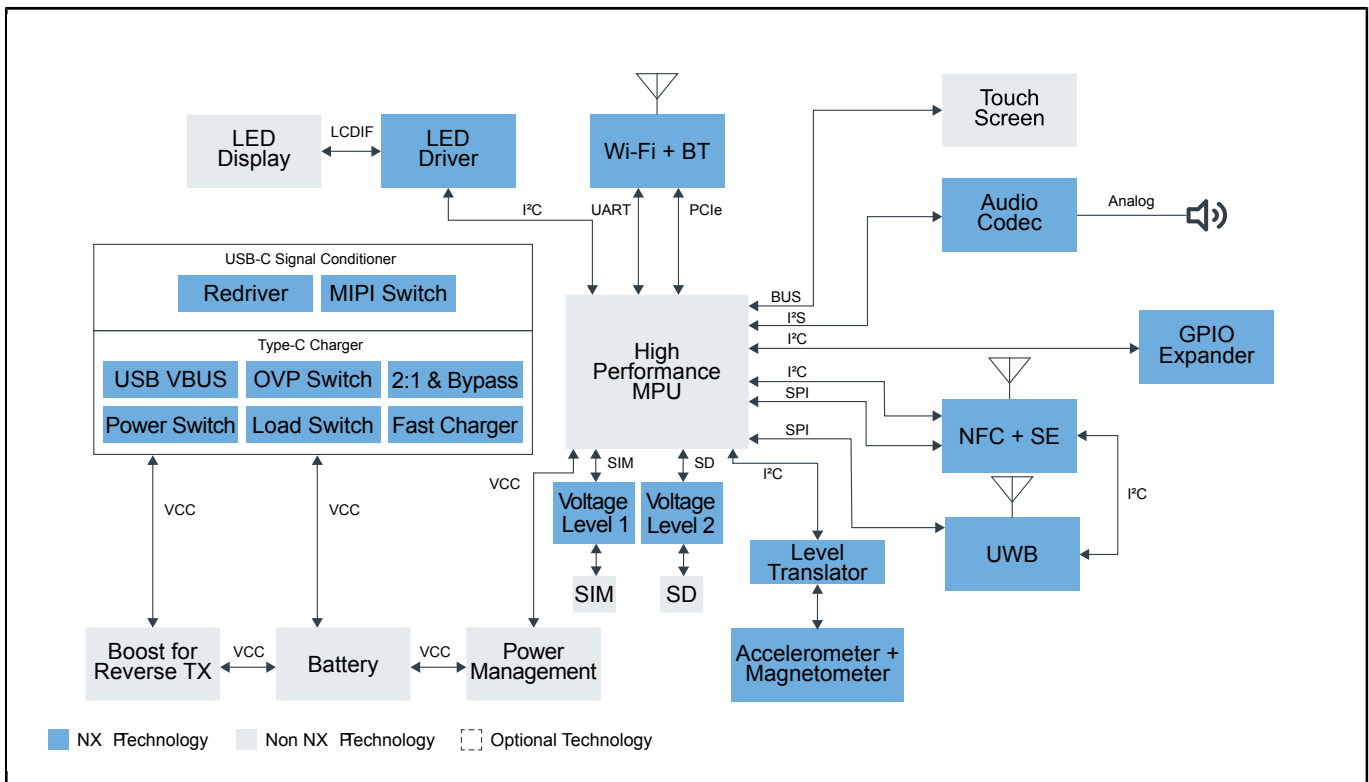
Smartphone

Last Updated: Feb 16, 2024

NXP innovations bring a variety of future capabilities and applications to mobile devices as they become the smarthub of daily digital life. NXP portfolio offers secure mobile wallet solutions, eSIM connectivity and UWB enablement for mobile devices.

Delivering data rates up to 10 Gbit/s and up to 100W of power, USB Type-C offers a connector that's tailored for emerging product designs—offering rich interface capabilities with “Alternate Mode” support. It also enables fully reversible plug orientation and cable direction, making USB Type-C far more convenient for consumers and helping deliver a true Plug-and-Play experience.

Smartphone Block Diagram



Recommended Products for Smartphone

Type C charger	<ul style="list-style-type: none"> • NX30P6093: High-Voltage I²C Controlled Overvoltage Protection Load Switch • NX20P3483UK: USB PD and Type-C High-Voltage Sink/Source Combo Switch with Protection • NX30P0121UK: High-Voltage Back-to-Back OVP Switch with Current Sense
Voltage Level 1	<ul style="list-style-type: none"> • NVT4557: SIM Card Interface Level Translator with EMI Filter and ESD Protection

Voltage Level 2	<ul style="list-style-type: none"> • NVT4858: SD, SDIO, Mini SD, Micro SD and SIM Card Voltage Level Translator with EMI Filter and ESD Protection
USB C Signal	<ul style="list-style-type: none"> • PTN36502: Type-C USB 3.1 Gen 1 and DisplayPort V1.2 Combo Redriver • NX3DV642GU: Three-Lane High-Speed MIPI-Compatible Switch
Wireless	<ul style="list-style-type: none"> • 88W8997: 2.4/5 GHz Dual-Band 2x2 Wi-Fi® 5 (802.11ac) + Bluetooth® 5.3 Solution • WLAN7202C: 5 GHz-7 GHz Wi-Fi® 6E Front-End IC • WLAN7205C: 5 GHz-7 GHz Wi-Fi® 6E Front-End IC • WLAN7207H: 2.4 GHz Wi-Fi® 6 Front-End IC • WLAN7207C: 5 GHz-7 GHz Wi-Fi® 6E Front-End IC
LED Driver	<ul style="list-style-type: none"> • PCA9632: 4-Bit Fm+ I²C-Bus Low-Power LED Driver
RTC	<ul style="list-style-type: none"> • FXOS8700CQ: Digital Motion Sensor - 3D Accelerometer (±2g/±4g/±8g) + 3D Magnetometer
Audio Codec	<ul style="list-style-type: none"> • SGTL5000: Ultra-Low-Power Audio Codec
GPIO Expander	<ul style="list-style-type: none"> • PCAL6408A: Low-Voltage Translating, 8-Bit I²C-Bus/SMBus I/O Expander
Level Translator	<ul style="list-style-type: none"> • PCA9306: Dual Bidirectional I²C-Bus and SMBus Voltage-Level Translator • P3A9606: Dual Bidirectional I³C/I²C-Bus and SPI Voltage-Level Translator
UWB	<ul style="list-style-type: none"> • Trimention™ SR150: Secure UWB Solution for IoT Devices
USB C Signal	<ul style="list-style-type: none"> • PTN36502: Type-C USB 3.1 Gen 1 and DisplayPort V1.2 Combo Redriver • NX3DV642GU: Three-Lane High-Speed MIPI-Compatible Switch
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View our complete solution for [Smartphone](#).

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