



# Hearables

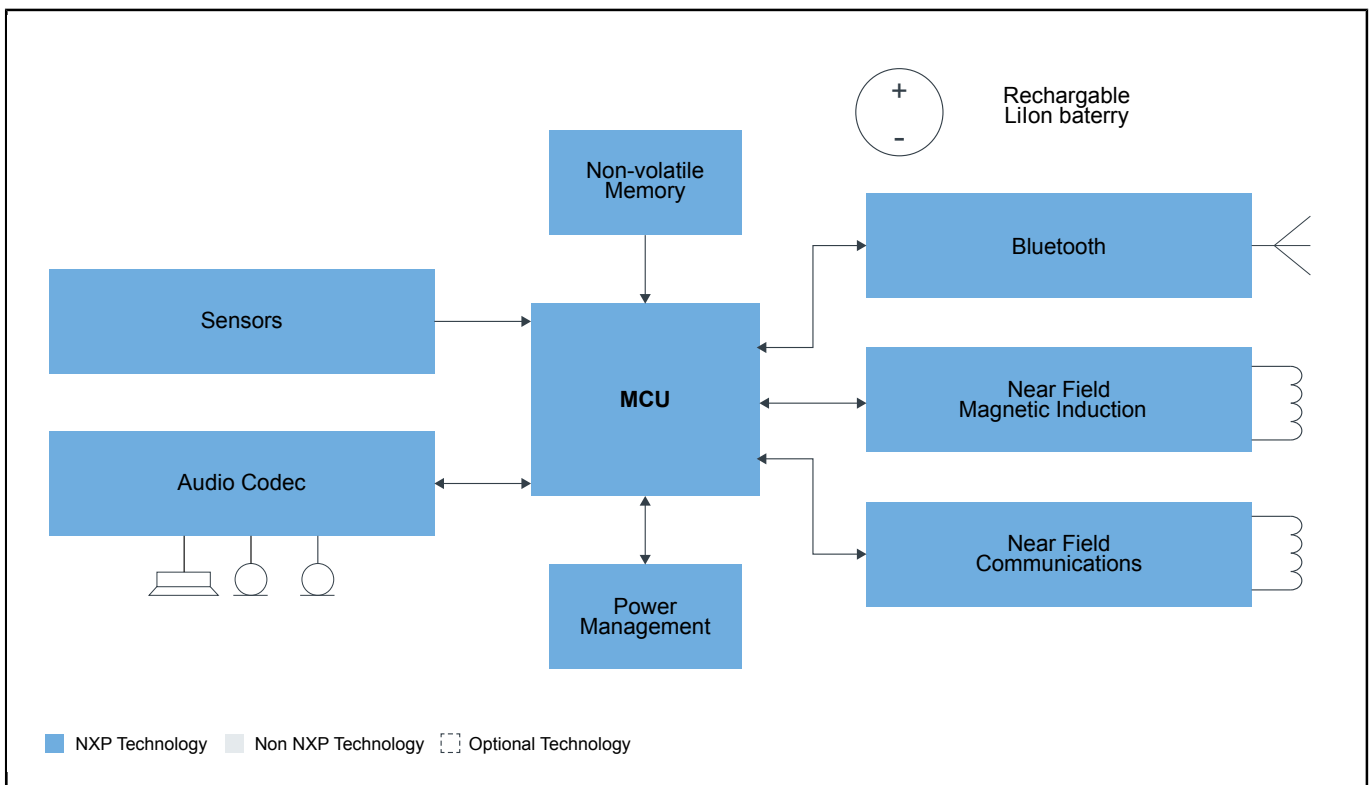
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Hearables, or smart headphones, are highly integrated, truly wireless earbuds designed to improve audio experiences across a range of consumer and healthcare applications.

Small form factors, ultra-lightweight, and wireless operation increase user comfort. The continued challenge for hearables is how to combine audio quality, user experience, and better battery life in a tiny package while offering a multitude of possibilities, all of which demands digital signal processing.

NXP® offers a growing portfolio of ultra-low-power MiGLO™ hearables solutions based on digital signal processing, NFMI and Bluetooth® Low-Energy technologies. MiGLO delivers the power of wireless audio today.

## Hearables Block Diagram



Recommended Products for Hearables	
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="#">LPC541XX</a>: Low-Power Microcontrollers (MCUs) Based on Arm® Cortex®-M4 Cores With Optional Cortex®-M0+ Co-processor</li> <li>• <a href="#">i.MX-RT500</a>: i.MX RT500 Crossover MCU with Arm® Cortex®-M33, DSP and GPU Cores</li> <li>• <a href="#">i.MX-RT600</a>: i.MX RT600 Crossover MCU with Arm® Cortex®-M33 and DSP Cores</li> </ul>
Power Management	<ul style="list-style-type: none"> <li>• <a href="#">PCA9420-PCA9421</a>: PMIC for Low Power Applications</li> <li>• <a href="#">PCA9460</a>: 13-Channel Power Management Integrated Circuit (PMIC) for Ultra Low Power Application</li> <li>• <a href="#">Battery Management</a>: Battery Management</li> </ul>
NFC	<ul style="list-style-type: none"> <li>• <a href="#">NFC (HF)</a>: NFC - Near Field Communication</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• <a href="#">NXH5104UK</a>: 4 Mbit Serial SPI EEPROM</li> </ul>
NFMI Radio	<ul style="list-style-type: none"> <li>• <a href="#">MiGLO®</a>: MiGLO®</li> </ul>
Sensors	<ul style="list-style-type: none"> <li>• <a href="#">FXLS8974CF</a>: ±2g/±4g/±8g/±16g, Low-Power 12-Bit Digital IoT Accelerometer</li> </ul>
Bluetooth	<ul style="list-style-type: none"> <li>• <a href="#">NXH2004</a>: Ultra-Low Power Hearing Aid SoC Solution over Bluetooth® LE Audio</li> <li>• <a href="#">NXH3670</a>: Ultra-low Power, Low Latency Audio for Wireless Gaming Headphone</li> <li>• <a href="#">NXH3675</a>: Ultra-Low Power Bluetooth Low Energy Audio Solution with Integrated Flash</li> </ul>
Audio Codec	<ul style="list-style-type: none"> <li>• <a href="#">SGTL5000</a>: Ultra-Low-Power Audio Codec</li> </ul>

View our complete solution for [Hearables](#).

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

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