



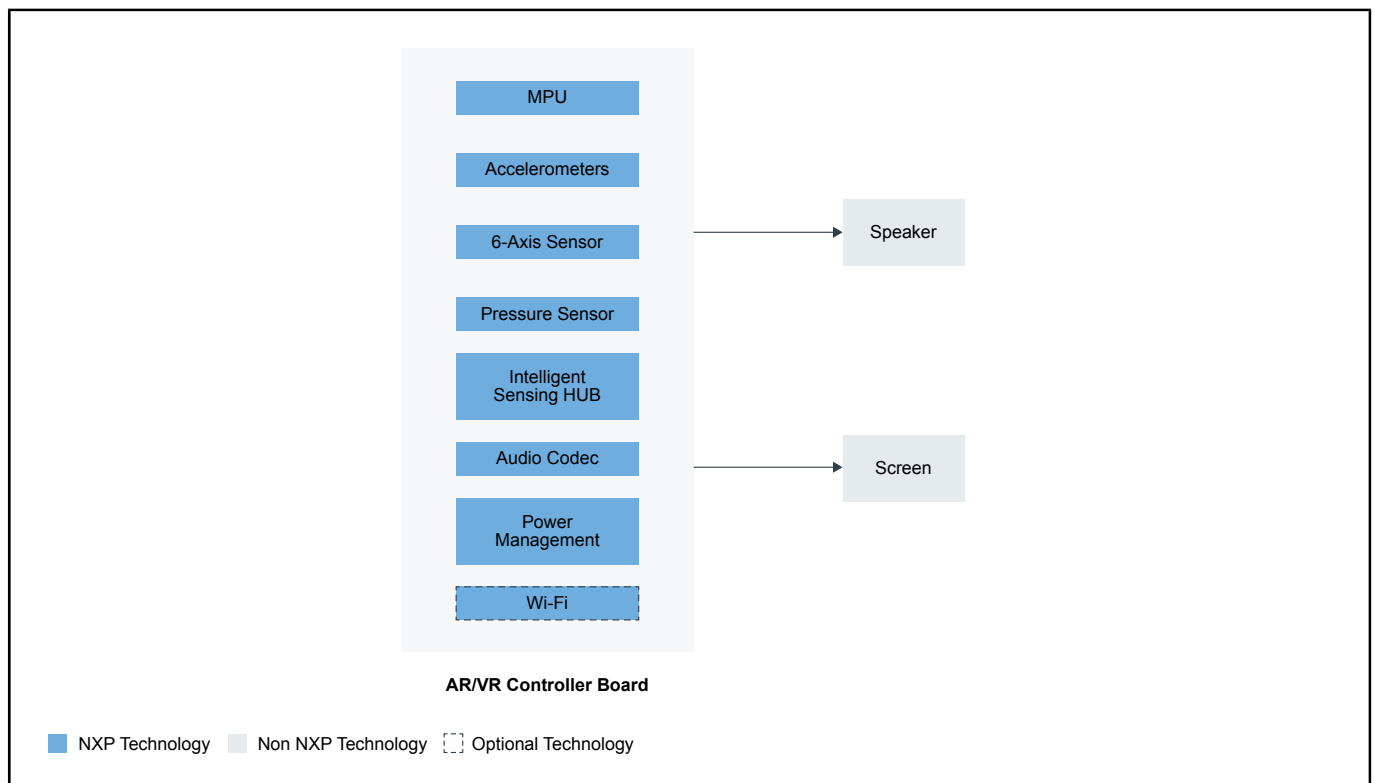
Augmented Reality and Virtual Reality Headsets

Last Updated: Apr 11, 2024

Augmented reality is a compelling application that combines i.MX multimedia processing power, sensors and software to offer a new level of user experience for next-generation mobile devices in the consumer, medical and automotive infotainment markets.

Augmented reality puts a virtual view on top of your real world, bridging the gap between the actual and digital worlds. Information, media, education, services and advertisements becomes layered content from the Internet to match specific environments and contexts in a more natural way.

VR and AR Block Diagram



Recommended Products for VR and AR	
Accelerometers	<ul style="list-style-type: none"> • MMA8652FC: $\pm 2g/\pm 4g/\pm 8g$, Low g, 12-Bit Digital Accelerometer • FXLS8974CF: $\pm 2g/\pm 4g/\pm 8g/\pm 16g$, Low-Power 12-Bit Digital IoT Accelerometer
6-Axis Sensor	<ul style="list-style-type: none"> • FXLS8974CF: $\pm 2g/\pm 4g/\pm 8g/\pm 16g$, Low-Power 12-Bit Digital IoT Accelerometer
Pressure Sensors	<ul style="list-style-type: none"> • MPL3115A2: Absolute Digital Pressure Sensor (20 to 110 kPa)
Intelligent Sensing Hub	<ul style="list-style-type: none"> • FXLS8974CF: $\pm 2g/\pm 4g/\pm 8g/\pm 16g$, Low-Power 12-Bit Digital IoT Accelerometer
MPU	<ul style="list-style-type: none"> • i.MX6D: i.MX 6Dual Processors - Dual-Core, 3D Graphics, HD Video, Multimedia, Arm[®] Cortex[®]-A9 Core • i.MX6Q: i.MX 6Quad Processors - High-Performance, 3D Graphics, HD Video, Arm[®] Cortex[®]-A9 Core • i.MX6DP: i.MX 6DualPlus Processor - Dual-Core, High-Performance, Advanced 3D Graphics, HD Video, Advanced Multimedia, Arm[®] Cortex[®]-A9 Core • i.MX8MMINI: i.MX 8M Mini - Arm[®] Cortex[®]-A53, Cortex-M4, Audio, Voice, Video
Audio Codec	<ul style="list-style-type: none"> • SGTL5000: Ultra-Low-Power Audio Codec
Power Management	<ul style="list-style-type: none"> • PF8121: 12-Channel Power Management Integrated Circuit (PMIC) for High-Performance Consumer Applications • MMPF0100: 14-Channel Configurable PMIC
Wi-Fi	<ul style="list-style-type: none"> • IW416: 2.4/5 GHz Dual-Band 1x1 Wi-Fi[®] 4 (802.11n) + Bluetooth[®] 5.2 Solution • 88W8987: 2.4/5 GHz Dual-Band 1x1 Wi-Fi[®] 5 (802.11ac) + Bluetooth[®] 5.2 Solution • 88MW32X 802.11n Wi-Fi[®] Microcontroller SoC

View our complete solution for [Augmented Reality and Virtual Reality Headsets](#).

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