Auracast[™], Bluetooth® LE Audio evolves

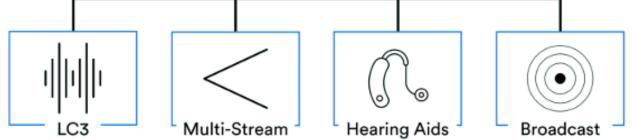


Bluetooth LE Audio

The next generation of Bluetooth Audio

Introduces new features that improves performance & creates new use cases

Bluetooth LE Audio



Bluetooth 5.2 optional feature Improved audio quality Reduced power consumption

Greater Interoperability Development of hearing aids & TWS device Introduction of Auracast[™] broadcast audio





What is Bluetooth LE Audio?

Based on isochronous channels, new to Bluetooth LE audio

LC3 compression standard

True wireless stereo support (L/R) native to Bluetooth LE audio

Broadcast streams with numerous consumers / sink devices

Connected streams with multiple devices



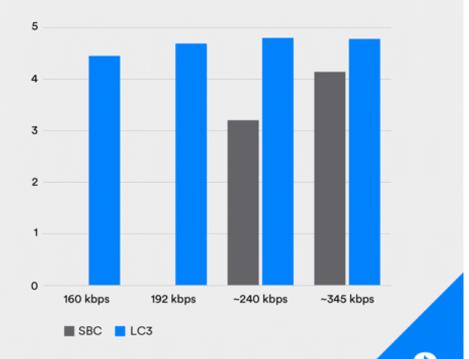


Next generation audio compression

Bluetooth LE Audio employs LC3

Bluetooth Codec Comparison

Standard Stereo Listening Test



Low Complexity Communications Codec (LC3) is highly portable

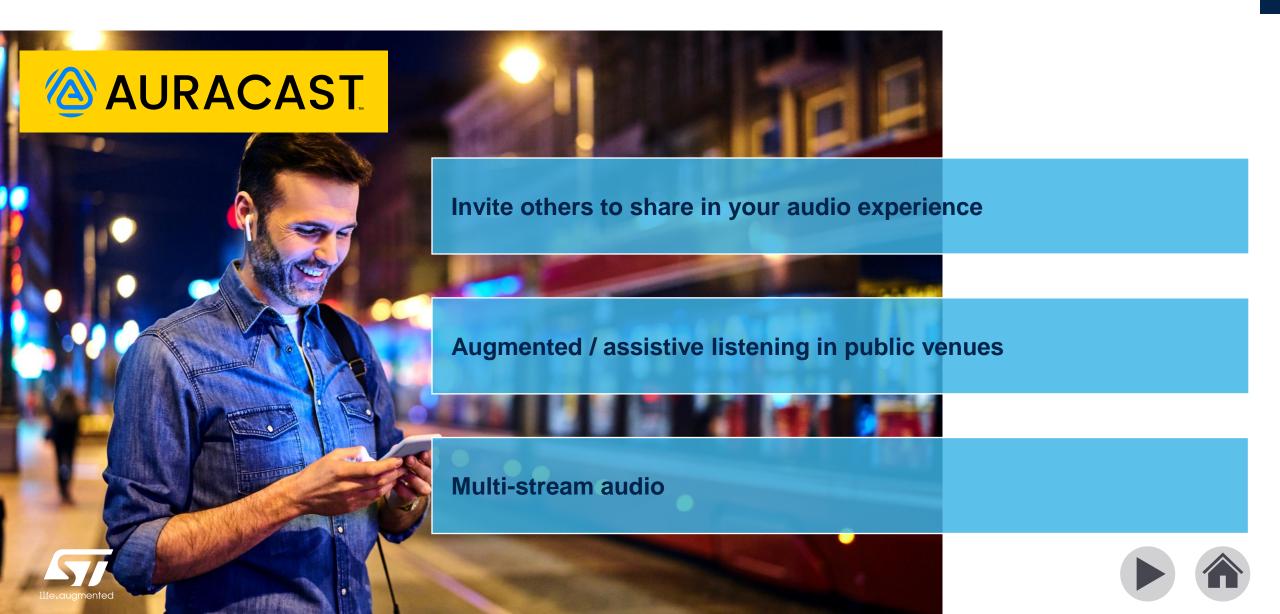
Microcontrollers can code and decode easily with LC3

Comparing LC3 with SBC (Bluetooth Classic) listening tests show the same and better results





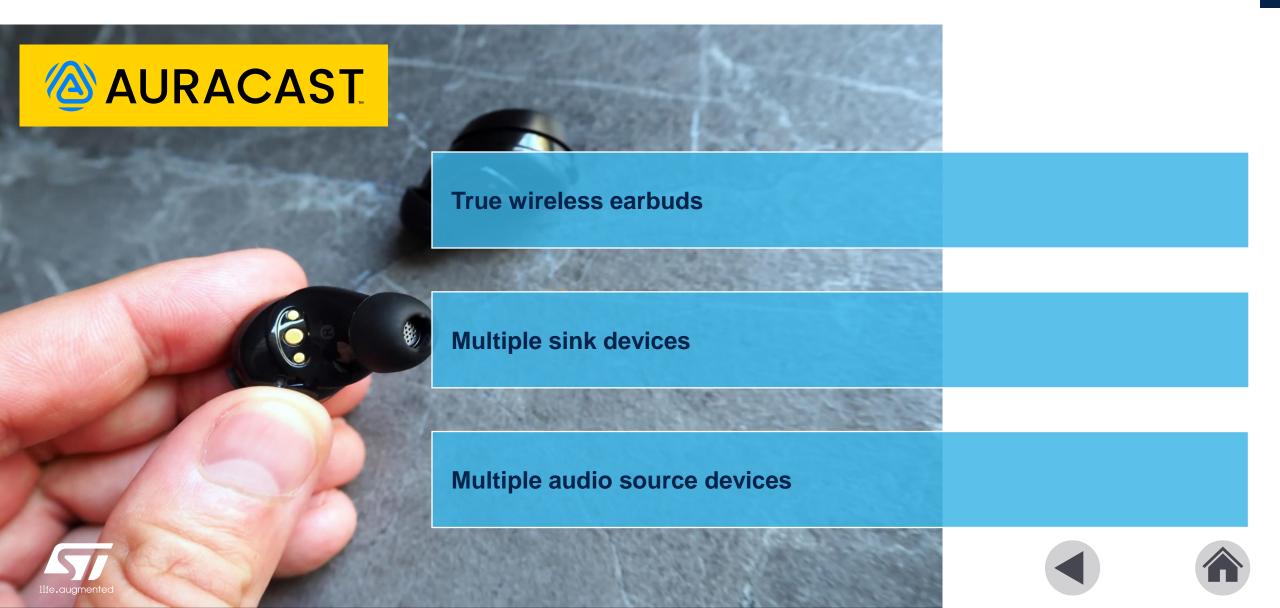
New audio experiences with Auracast[™]



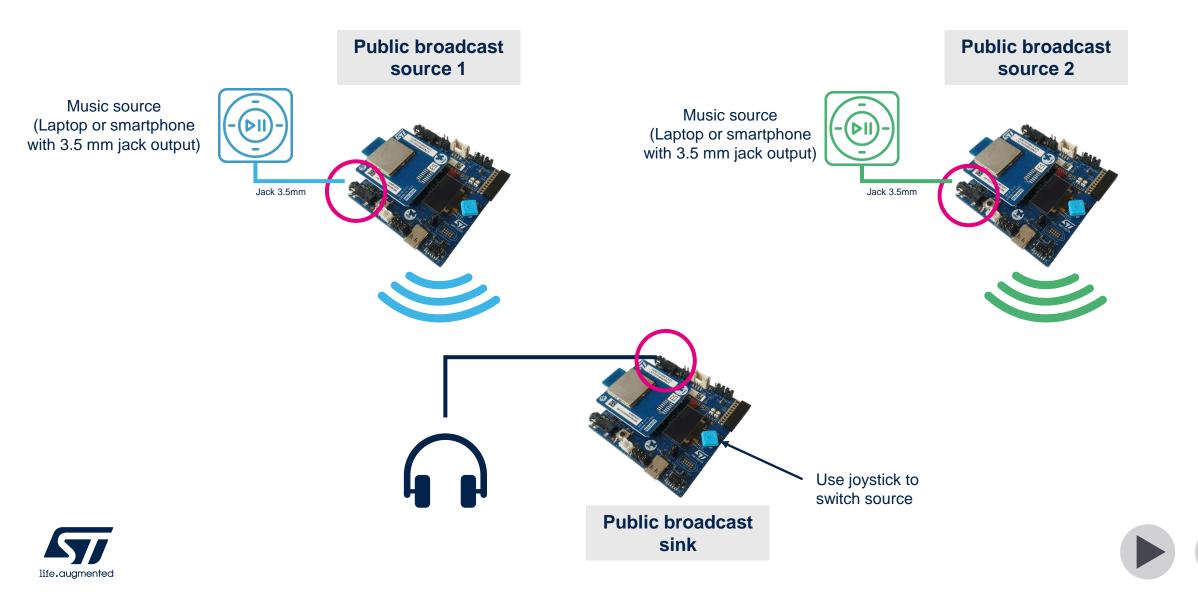
Unmute your world



Multi-stream audio



Bluetooth® LE Audio / Auracast[™] with STM32WBA



STM32WBA

STM32WBA

Wireless	Bluetooth [®] Low Energy 5.4 certified (long range, 2 Msps, advertising extension)
Performance	Arm [®] Cortex [®] -M33 at 100 MHz Efficiency
Power efficiency	Extended battery lifetime Autonomous low-power mode
Security	TrustZone [®] DPA resistant
Integration	1 Mbyte of flash memory, 128 Kbytes RAM Reduced BOM
Free ecosystem	Faster time to market Enhanced design journey



