



CHEARS[®]

Choose your ears







DUAL-TECH AUDIO SOLUTION

Auracast Meets Bluetooth Classic in One Compact Device

Bluetooth Auracast



VS



Bluetooth Classic

LC3

Audio Codec



SBC, AAC, aptX (varies)

Up to 480 kbps, 48 kHz

Audio Quality



up to 990 kbps, 96 kHz
Codec dependent

20-50 ms



Latency

32 - 300 ms,
codec dependent

Up to 100 meters



Distance

Up to 30 meters,
varies by device

Lower, LE-based



Power Consumption

Higher, classic Bluetooth

Unlimited



Multiple Connection

Max. 2

Bluetooth 5.2 or
above with LE Audio

Compatibility



Broad,
universal device support

Public broadcast, assistive

Use Case

Personal listening,
high fidelity



is Auracast?

Auracast, the cutting-edge Bluetooth LE Audio technology, transforms how we experience sound by broadcasting crisp, high-quality audio across an impressive **100-meter** range using the advanced **LC3** codec. Engineered for efficiency, it delivers low latency of **20-50 ms**, ensuring seamless real-time performance, while its power-saving design keeps devices running longer. Tailored for public spaces like airports, break-out rooms, gyms, and theaters, Auracast effortlessly connects **multiple devices** without the hassle of pairing. Whether it's delivering crystal-clear announcements, enhancing assistive listening for those with hearing needs, or enabling shared audio experiences, this innovative technology redefines convenience and accessibility in crowded environments, for guided tours, translation purposes, etc.



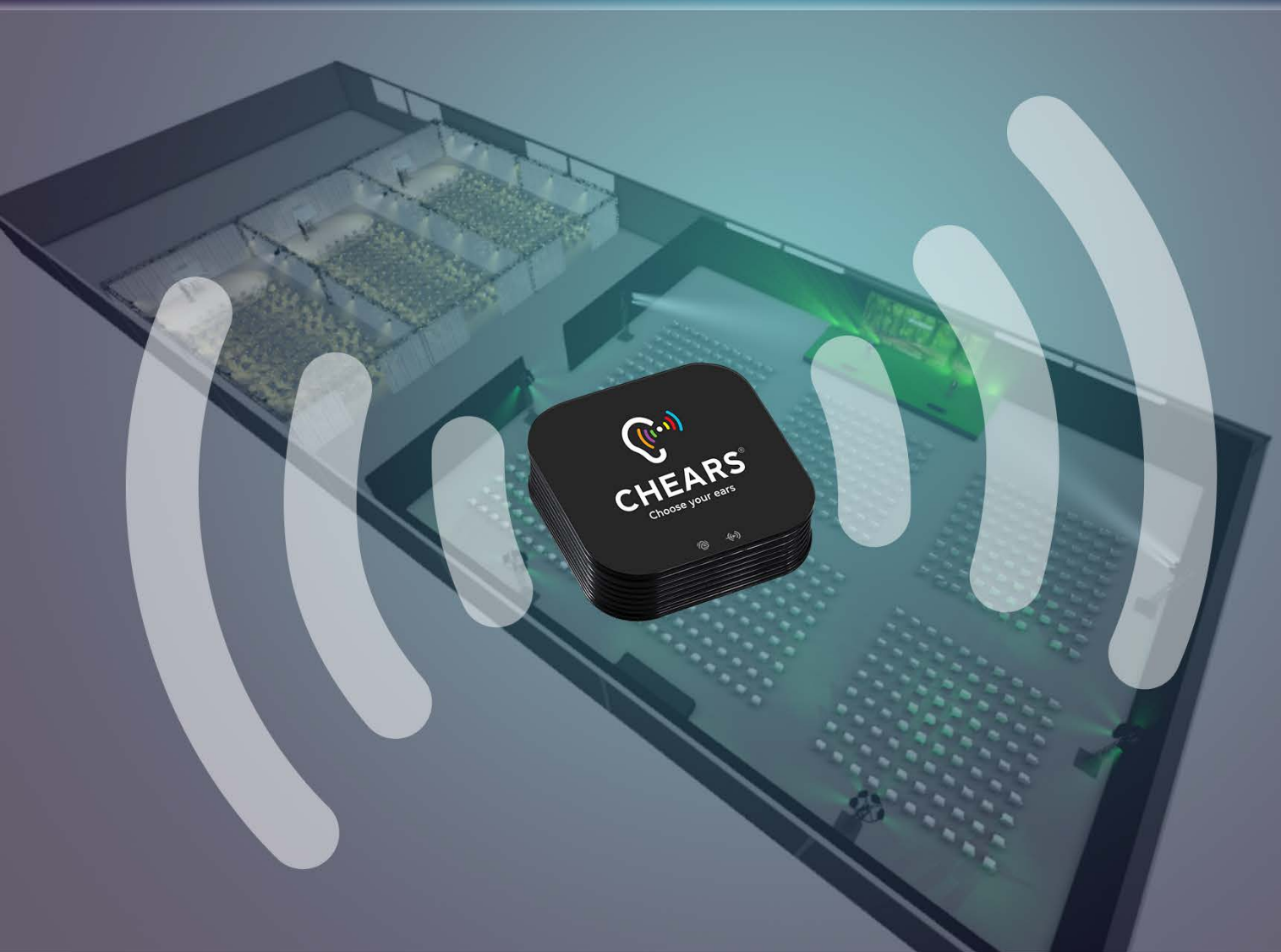
Choose CHEARS

CHEARS combines Auracast and Bluetooth Classic in **ONE** device.

- **Transmitter:** Unleashes Auracast broadcasts and streams Bluetooth Classic audio with high-Res codecs like LC3, aptX Lossless and aptX Adaptive for unmatched audio bliss.
- **Receiver (open-ear headset):** Captures public Auracast or delivers private listening with codecs like LC3, aptX Lossless, aptX Adaptive, and more.

STAY CONNECTED ACROSS MULTIPLE ROOMS

Enjoy stable audio streaming up to **50m/165ft** indoors and **100m/330ft** outdoors



SIMPLE AUDIO CONNECTION

ONE BUTTON CONTROL

One Input Socket, 3 Seamless Connection Options, All Controlled with a Single Button



Audio Input with 3 Connection Options (Choose One at a Time)

Option 1

(analog)



3.5mm to 3.5mm

Option 2

(digital optical fiber)



Toslink to Mini Toslink

Option 3

(analog)



RCA to 3.5mm

UNCOMPROMISING AUDIO QUALITY

Support for Hi-Res codecs, including **LC3**, **aptX Lossless**, **aptX Adaptive**, and **aptX HD**,
for the ultimate listening experience.



LC3

 **AURACAST**
A BLUETOOTH® TECHNOLOGY



Qualcomm aptX
Lossless



Qualcomm aptX
Adaptive



Qualcomm aptX
HD



Pulse headset Product Specification

Product Information

Product Name	Chears Pulse
Model Name	Pulse
Document Version	V1.0
Release Date	2025/10/03

Product Specifications

Specification	Description
Chipset Model	Qualcomm QCC3084
Bluetooth Version	Compliant to v5.4 (Qualified as v5.3)
RF Operating Frequency	2400 to 2483.5 MHz
RF Transmission Power	Class 1/2
RF Receiving Sensitivity	-90 dBm (typical)
Wireless Range	≥40m unobstructed
Speaker Specs	Ø16.3mm / 8Ω / 500mW, 2PCS bone-conduction driver
Audio Frequency Response	50Hz–15KHz
Device Audio dB (L/R)	86±3dB
Microphone Specs	2718 mems
Microphone Sensitivity	38±3 dB
Battery Specs	Li-Poly 180mAh
Material	ABS + Silicone
Waterproof Level	IPx5
Buttons	Power key, V+ key, V- key
Charging Port	USB-C
Charging Time	Approx. 2 hours
Music Playtime	Approx. 8 hours (50% volume)
Standby Time	≥120 days per charge
Supported Audio Codec	SBC, AAC, aptX, aptX HD, LC3
Supported Bluetooth Profile	A2DP, AVRCP, HFP, LE Audio, Auracast BIS
Product Size	135 × 131 × 43 mm (dual-ear)
Weight	Approx. 25g
Operating Temperature	0C to 40C
Storage Temperature	-20C to 60C

Certifications

Product complies with RoHS / CE / FCC / ISED / JRC standards. Certifications available upon request.