



Bettear B-Caster | Data Sheet

Dual-purpose Auracast™ Access Point (Assistive Listening and Pure Auracast™)

www.bettear.com



Highlights:

- Dual purpose Auracast™ Streamer (Assistive Listening and Stand Alone)
- Low latency (<40mS) to Auracast™ devices
- Open or secure multichannel audio transmission
- Superior RF ensuring market-leading coverage (at least 100 Meters, Outdoors and Indoors)
- Power cascading installation (Auracast™ and Wi-Fi)
- Fully interoperable with Auracast™ end devices (hearing aids, cochlear implants, earbuds, and headphones)



OVERVIEW

Bettear's B-CAST Auracast Streamer represents a breakthrough in audio streaming technology. It seamlessly integrates with Auracast-based hearables, providing a customized listening experience for individuals with hearing impairments. Additionally, the B-CAST Streamer is equally adept as a standalone access point, making it a versatile solution for various applications.

KEY FEATURES

POWERFULL CONTROLLABLE RF: With its high-end RF engineering, the B-CASTER delivers robust and reliable wireless coverage (at least 100m), even in challenging environments (indoors and outdoors).

CASCADABLE POWER OVER ETHERNET (POE): The B-CASTER Streamer supports cascading PoE, allowing two units (Auracast™ or Auracast™ and Wi-Fi) to be daisy-chained. This feature simplifies installation and ensures efficient power distribution across a network of devices.

REAL-TIME AUDIO STREAMING: The B-Caster Streamer excels at streaming real-time audio over Wi-Fi and Auracast. Users can enjoy crystal-clear sound directly through their preferred listening devices, whether at a live event, lecture, or concert.

COMPATIBILITY WITH AURACAST HEARABLES: Explicitly designed for Auracast™-based hearables, the B-Caster Streamer ensures seamless pairing and synchronization. Users can connect effortlessly and experience high-fidelity audio tailored to their unique preferences.

USER-FRIENDLY DESIGN: The B-Caster Streamer combines advanced technologies with an intuitive interface. It offers hassle-free configuration, operation, network connectivity, and deployment.

OPTIMAL AUDIO EXPERIENCE: For those seeking cutting-edge technology to enhance auditory accessibility, the B-Caster Streamer is the ideal choice. It delivers exceptional sound quality, making every listening moment more enjoyable.

ADJUSTABLE AUDIO SETTINGS: Bettear's free iOS and Android assistive listening application provides seamless control over audio settings. Users can fine-tune sound profiles and other parameters to suit their preferences. The B-Caster can be used for direct Auracast™ streaming to multiple Auracast™ supporting devices.

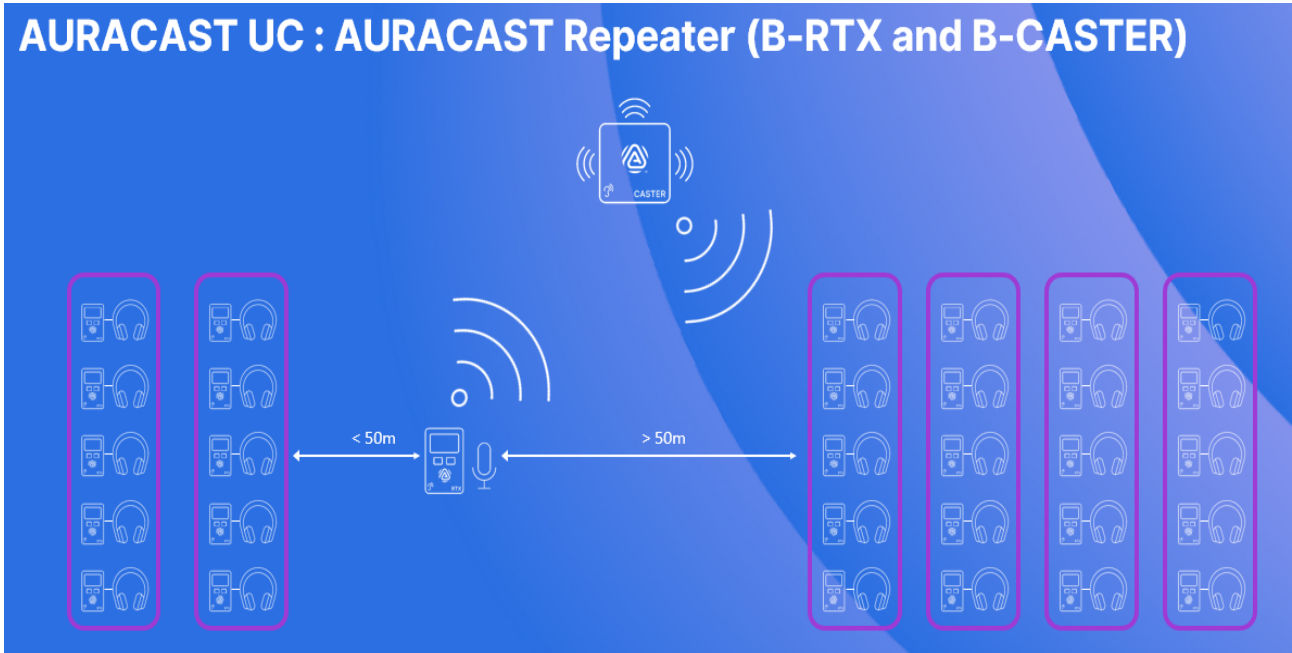
WEB MANAGEMENT DASHBOARD: Through the web management dashboard, administrators can configure the B-CASTER effortlessly. Features include:

- Auracast™ channels information set-up
- Real-time multi-language transcriptions for live events

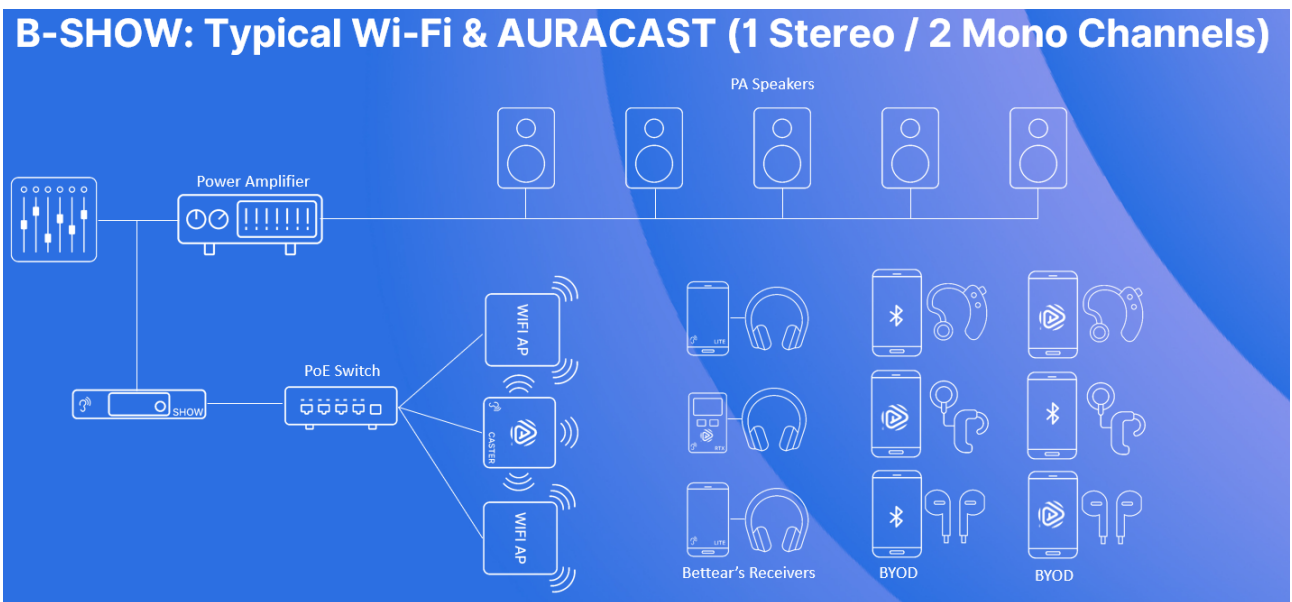
The Auracast B-CASTER transcends traditional audio streaming solutions. Whether used in assistive listening scenarios or as direct audio streaming, it empowers users to engage fully with sound. Experience auditory accessibility like never before.

TYPICAL USE CASES

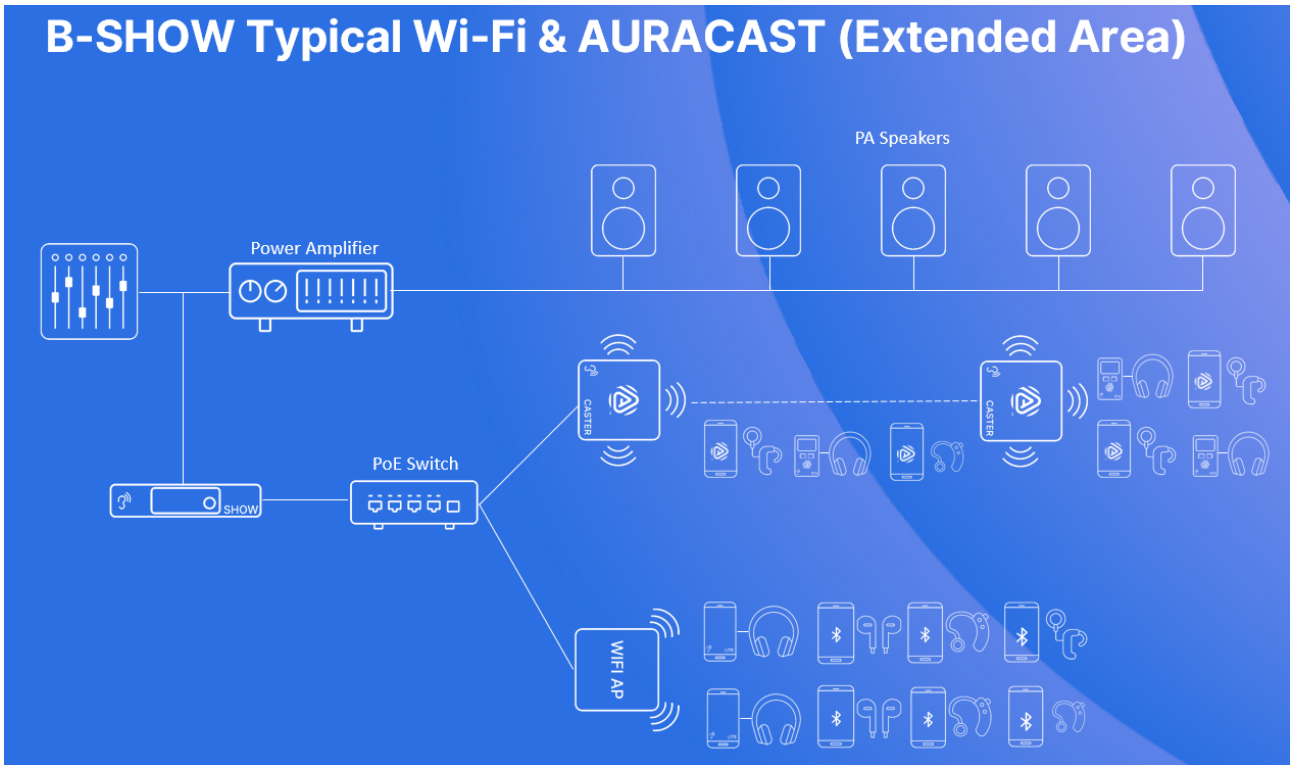
AURACAST UC : AURACAST Repeater (B-RTX and B-CASTER)



B-SHOW: Typical Wi-Fi & AURACAST (1 Stereo / 2 Mono Channels)



B-SHOW Typical Wi-Fi & AURACAST (Extended Area)



BETTEAR'S B-RTX PANE

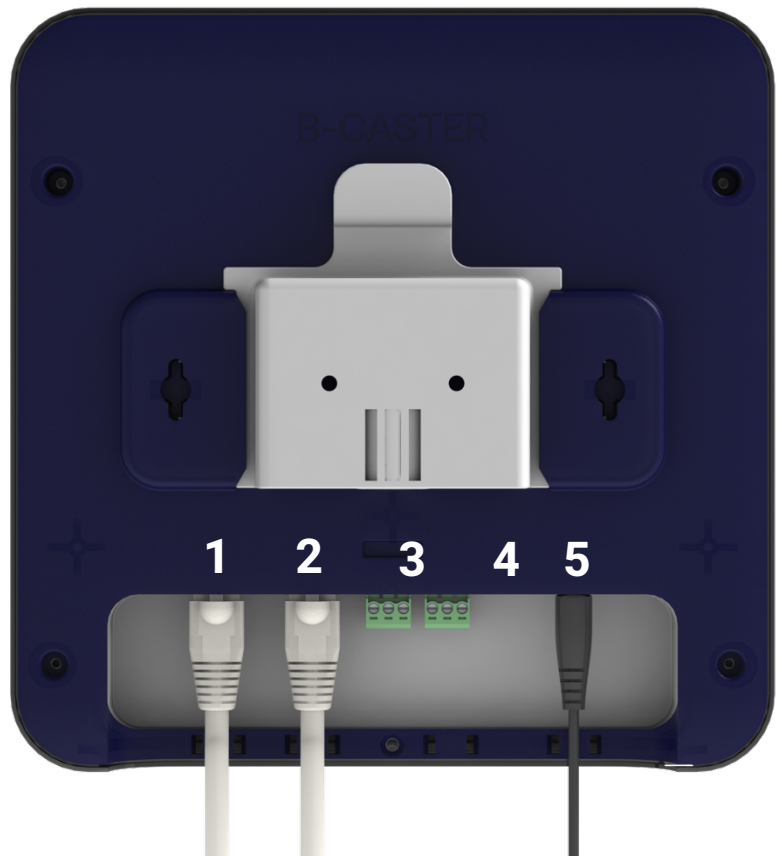
FRONT PANEL LEDS

1. Power ON
2. LAN 1 - Input
3. LAN 2- Output
4. CAST



BACK PANEL CONNECTORS

1. LAN 1 (30W PoE+ In)
2. LAN 2 (15.4W PoE out)
3. Two Terminal Block Inputs: In1 and In2
4. Reset Button
5. DC In (12V)



BETTEAR CASTER KEY FEATURES:

Full Auracast™ Support: BETTEAR'S CASTER IS DESIGNED TO FULLY SUPPORT AURACAST™ BROADCASTING FULLY, ENABLING IT TO TRANSMIT AUDIO TO MULTIPLE RECEIVING DEVICES SIMULTANEOUSLY. THE B-CASTER ENDORSES THE BROADCASTING OF ONE STEREO OR TWO MONO CHANNELS.

Bluetooth LE Audio: BETTEAR'S B-CASTER SUPPORTS THE BLUETOOTH LE AUDIO STANDARD, WHICH OFFERS IMPROVED AUDIO QUALITY, LOWER POWER CONSUMPTION, AND NEW FEATURES LIKE MULTI-STREAM AUDIO AND BROADCAST AUDIO.

Multi-Stream Audio: WITH LE AUDIO, YOUR PRODUCT CAN SEND MULTIPLE INDEPENDENT AUDIO STREAMS TO DIFFERENT RECEIVING DEVICES, ALLOWING FOR PERSONALIZED LISTENING EXPERIENCES.

High-Quality LC3 Codec: THE B-CASTER SUPPORTS THE LC3 AUDIO CODEC, WHICH PROVIDES HIGH-QUALITY AUDIO EVEN AT LOW BITRATES, CONSERVING POWER AND BANDWIDTH.

Quad-Core: BETTEAR'S B-CASTER UTILIZES A DOUBLE DUAL-CORE ARCHITECTURE WITH A HIGH-PERFORMANCE APPLICATION PROCESSOR AND AN ULTRA-LOW-POWER NETWORK PROCESSOR. THIS ENSURES EFFICIENT OPERATION FOR DEMANDING AUDIO TASKS FOR BOTH ASSISTIVE LISTENING STREAMING AND AURACAST™ STREAMING.



Product-Specific Benefits:

DUAL MODE USE CASE: Bettgear's B-CASTER can be part of an Assistive Listening deployment, streaming low latency and high-quality audio with personalized audio to Auracast™ supporting devices (hearing aids, cochlear implants, and earphones/headphones). Additionally, it can be used in "pure" Auracast™ use cases, where audio is directly streamed to Auracast™ supporting hearables.

IMPROVED USER EXPERIENCE: Bettgear's B-CASTER can stream high-quality audio to multiple users simultaneously, opening up new possibilities for shared listening and assistive listening experiences in public spaces, cultural venues, sports arenas, and more.

CASCADABLE POE+: The B-CASTER unique power management circuitry enables network and power chaining between two B-CASTER or a B-ACSTER and a Wi-Fi Access point, hence reducing the cabling complexity.

HYBRID MODE OPERATION: Bettgear's B-CASTER can be seamlessly integrated into an existing venue, serviced by Wi-Fi streaming Assistive Listening solution (Employing Bettgear's market-leading B-SHOW). This Hybrid mode allows gradual migration from Wi-Fi to Auracast™ Assistive Listening solutions.

SUPERIOR RF CAPABILITIES: Bettgear's B-CASTER was meticulously engineered to offer exceptional RF, ensuring complete coverage for indoor and outdoor Auracast™ use cases. Its sophisticated RF circuitry and bespoke antennas assure low-latency transmission of high-quality audio to supporting end devices.

WARRANTY

Please visit www.bettgear.com for warranty and service information.

WARNING: Electrical Shock Hazard. No user-serviceable parts inside. Do not remove or open the cover to reduce the risk of electrical shock. Please get in touch with Bettgear for assistance.

PRIVACY POLICY

Please visit www.bettgear.com for warranty and service information.

SUPPORT

Please visit www.bettgear.com and use info@bettgear.com or call +972-3-7778630