

CASTER

Rev 1.4 · Sep 2026

Auracast™ Audio Streamer

The CASTER is a professional Auracast™ streamer that samples analog audio and broadcasts it live — for assistive listening in venues and for Hi-Fi streaming to personal devices.

Two balanced analog inputs reach Auracast™-enabled hearing aids, cochlear implants and earbuds, plus RTX receivers. Latency stays under 40 ms and the stream is secured with AES128. Managed from the built-in web panel or Hive Central.



AUDIO

Input modes	Stereo / Mono / Mix	Input gain	-12 dB to +32 dB
Inputs	2 × balanced analog, 3-pin 3.5 mm pitch terminal block	Sample rate	48 kHz
Max input voltage	2.1 Vrms (4.2 Vrms balanced)	Processing	AGC — automatic gain control
ADC SNR / THD+N	110 dB / -90 dB	High-pass filter	Off / 80 / 120 / 250 Hz
Frequency response	10 Hz – 22 kHz	Low-pass filter	Off / 8 / 12 / 16 kHz

NETWORK

Ports	LAN 1 – 1 Gbps (PoE+ in); LAN 2 – 1 Gbps (PoE out, LAN 2 license)	Audio sharing	Multicast or unicast over Ethernet
IP addressing	DHCP by default, falling back to 192.0.2.1; or static	Multicast	239.238.237.0/24 with IGMP (multicast mode)
Ports & services	HTTP 80; UDP 1337–1339, 9000 (API), 5353; mDNS _caster._tcp	Control API	Text-based, UDP port 9000; Crestron driver available

RADIO

Technology	Bluetooth® 5.3 Low Energy (Auracast™)	Broadcast modes	Stereo / Dual Mono / Timecode
Frequency range	2402 – 2480 MHz (2.4 GHz ISM band)	Extender mode	Receives audio from a master CASTER over the network to extend coverage
TX power	Selectable 5–20 dBm via panel or Hive Central	Hybrid mode	Auracast™ and B-SHOW Wi-Fi streaming at the same time
Antenna	Internal	Secure broadcast	4–16-character password, AES128
Codec	LC3 (16 / 24 / 48 kHz)		

REGULATORY

EU / UK	CE (RED 2014/53/EU) — cert TH2503009-C03-C01; UKCA — cert TH2503009-C05-C01	Japan	MIC 219-259224
USA / Canada	FCC ID 2BOBX-BCASTER (Part 15.247); IC 33650-BCASTER (RSS-247)	Australia / NZ	RCM — AS/NZS 4268, CISPR 32, 2772.2, 62368.1
		Environmental	RoHS, WEEE (Cat. VI)



CASTER

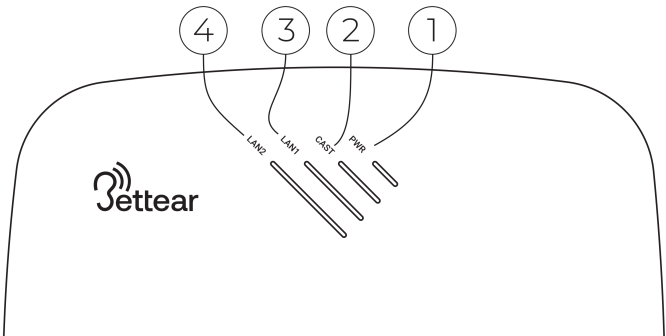
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FRONT PANEL INDICATORS

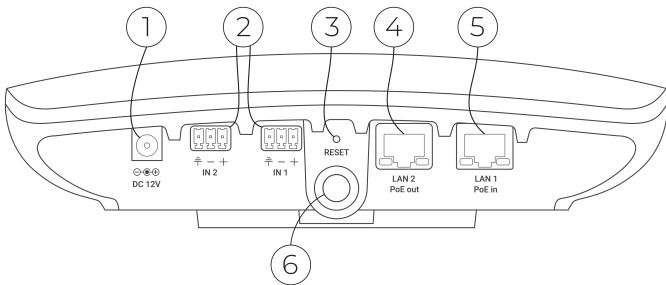
- 1 Power indicator (PWR)
- 2 Audio broadcasting indicator (CAST)
- 3 LAN 1 connectivity indicator
- 4 LAN 2 connectivity indicator

The LAN 1 and LAN 2 indicators can also be switched to audio-presence indicators in the management panel.

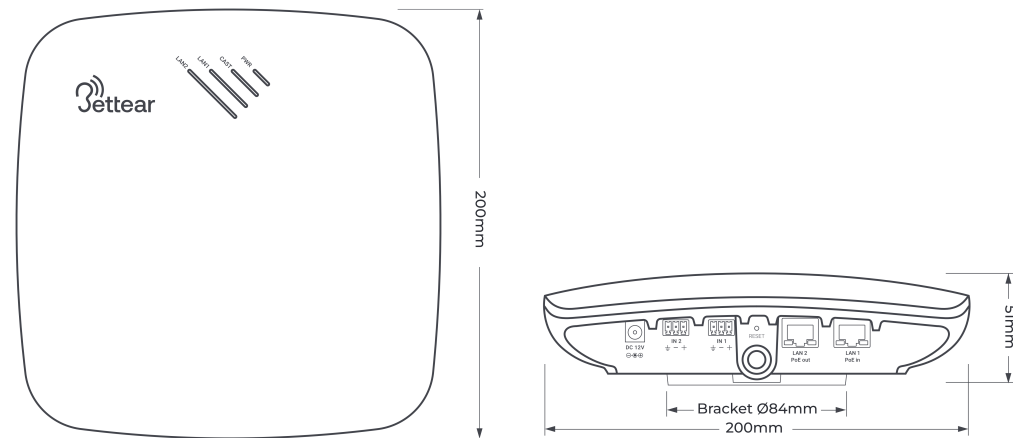


REAR PANEL CONNECTORS

- 1 Power input — 12 VDC, 2.5 A
- 2 IN 1/ IN 2 — balanced analog inputs (terminal block)
- 3 Reset button
- 4 LAN 2 — 1 Gbps, PoE out (LAN 2 license)
- 5 LAN 1 — 1 Gbps, PoE+ in
- 6 Mounting hole — 3/8" internal thread



DIMENSIONS



PHYSICAL & ENVIRONMENTAL

Dimensions	200 × 200 × 51 mm; bracket Ø 84 mm
Weight	419 g (0.92 lbs); bracket 25 g; shipping 589 g
Operating temp.	-12 °C to +40 °C (10.4 °F to 104 °F)
Colors	White, Black
Mounting	Wall/ceiling bracket (included) or 3/8" threaded stand

IN THE BOX & ADD-ONS

Supplied	CASTER unit and wall/ceiling mounting bracket
Required	12 VDC / 2.5 A power supply — not included; or power the unit over PoE+
Compatible devices	RTX receivers; RTX GO; B-PASS; FORGE XD; Hive Central

