CASTER X

Rev 1.1 · Oct 2026

Auracast™ Audio Streamer



The CASTER X is a professional Auracast™ streamer with a switchable internal or external antenna, so RF coverage can be tuned to the room rather than the other way round.

It takes two balanced analog inputs and broadcasts to Auracast™-enabled hearing aids, cochlear implants and earbuds, plus RTX receivers. Managed from the built-in web panel or Hive Central.

AURACAST

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 (IN 1 / IN 2)	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™)	Codec	LC3 (16 / 24 / 48 kHz)
Frequency range	2402 – 2480 MHz (2.4 GHz ISM band)	Broadcast modes	Stereo / Dual Mono / Timecode
TX power	Selectable 5–20 dBm via panel or Hive Central	Extender mode	Receives audio from a master CASTER over the network to extend coverage
Antenna	Internal or external — switchable from the management panel or Hive Central	Hybrid mode	Auracast™ and B-SHOW Wi-Fi streaming at the same time
Antenna connector	RP-SMA jack (male pin), 50 ohm — takes an RP-SMA plug antenna	Secure broadcast	4–16-character password, AES128

REGULATORY

EU / UK	CE (RED 2014/53/EU); UKCA	Australia / NZ	RCM — AS/NZS 4268, CISPR 32, 2772.2, 62368.1
USA / Canada	FCC (Part 15.247); ISED (RSS-247)	Environmental	RoHS, WEEE
Japan	MIC / TELEC		

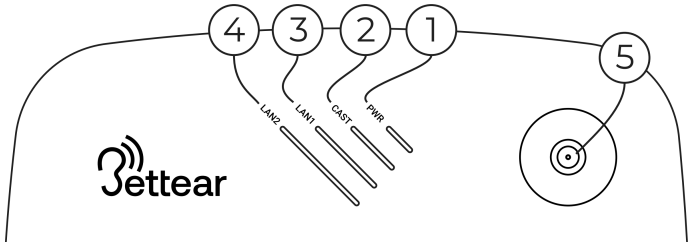
Bettear – Accessibility Technologies Development Ltd.
+972-3-777-8630 | www.bettear.com | support@bettear.com

CASTER X

Auracast™ Audio Streamer

FRONT PANEL INDICATORS

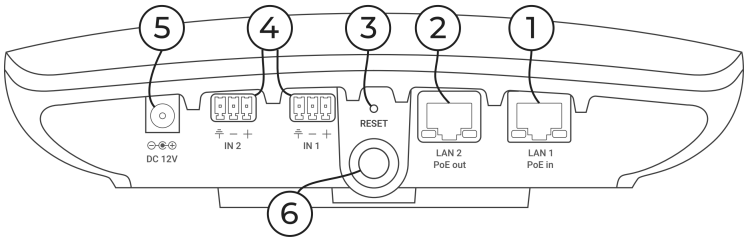
1 Power indicator (PWR)
2 Audio broadcasting indicator (CAST)
3 LAN 1 connectivity indicator
4 LAN 2 connectivity indicator
5 External antenna connector (RP-SMA)



The connector is a 50-ohm RP-SMA jack (reverse polarity, male center pin) — fit a 2.4 GHz antenna with an RP-SMA plug to optimise RF coverage. The antenna selection is switchable from the management panel or Hive Central.

REAR PANEL CONNECTORS

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



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 X unit and wall/ceiling mounting bracket
Required	12 VDC / 2.5 A power supply — not included; or power the unit over PoE+
Antenna	2.4 GHz antenna with an RP-SMA plug — sold separately
Compatible devices	RTX receivers; RTX GO; B-PASS; Hive Central

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