

CASTER X

Rev 1.0 · Sep 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 hearing aids, cochlear implants, earbuds and RTX receivers. 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 (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 (female), 50 ohm — takes an RP-SMA plug (male) 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		



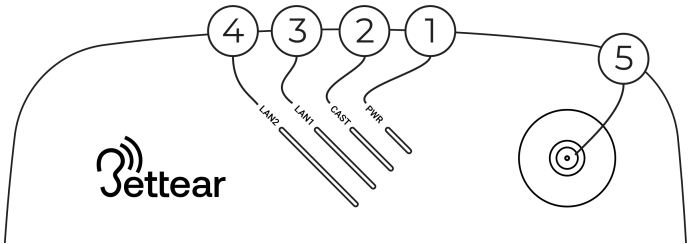
CASTER X

Auracast™ Audio Streamer

FRONT PANEL INDICATORS

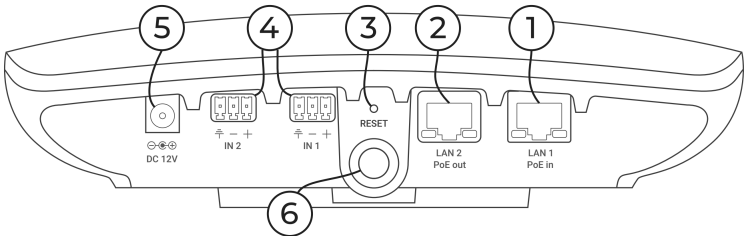
- 1 Power indicator (PWR)
- 2 Audio broadcasting indicator (CAST)
- 3 LAN 1 connectivity indicator
- 4 LAN 2 connectivity indicator
- 5 External antenna connector (RP-SMA)

The connector is a 50-ohm RP-SMA jack (reverse polarity, sold as RP-SMA female) — 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
Add-ons	B-PASS Tap-to-Access reader; RTX receivers; SmartHive and Hive Central

