



PRODUCT GUIDE

ST08 Product Documentation

Introduces the ST08 Bluetooth 6.0 USB-C transmitter — features, specifications and app control.

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Overview

Note

Sample document. The content below is drawn from the ST08 specification sheet only; installation and operating instructions are in preparation.

ST08 is a Bluetooth 6.0 USB-C audio transmitter. Plug it into a phone, tablet or computer with a USB-C port, and it sends the device's audio to Bluetooth headphones and speakers.



Figure 1 ST08 product photo

Key features

- **Bluetooth 6.0** with SBC, aptX, aptX HD, aptX Adaptive and LDAC codecs

- **Auracast broadcast** — transmit to multiple LE Audio receivers at once, with a configurable broadcast name and password
- **App control** on the web, Android and iOS: connection settings, broadcast settings, EQ and firmware updates
- **USB-powered**, no battery to charge — L 25.4mm × W 16.5mm × T 11.6mm

1 Specifications

Item	Specification
Series	Dongle
Variant	Transmitter
Bluetooth	6.0
Bluetooth chip	Qualcomm QCC5181
Codecs	SBC/aptX/aptX-HD/aptX-Adaptive/LDAC
LE Audio	Auracast broadcast transmit (configurable broadcast name and password)
Interface	USB-C
Power / Battery	USB-powered (no battery)
Display	None
Buttons	None
App Control	Web / Android / iOS
App Features	Connection settings · Broadcast settings · EQ · Firmware updates, etc.
Dimensions	L 25.4mm × W 16.5mm × T 11.6mm
Weight	2.3 g

2 Features

This section describes the main functions of ST08:

- **Audio codecs** — which codecs are supported
- **Auracast broadcast** — sending one audio stream to many receivers

2.1 Audio codecs

ST08 supports the following Bluetooth audio codecs:

Codec	Notes
SBC	Mandatory baseline codec, supported by every Bluetooth headphone
aptX ¹	Qualcomm codec
aptX HD	Higher-resolution variant of aptX
aptX Adaptive	Adjusts bit rate to the radio conditions
LDAC ²	Sony high-resolution codec

Tip

The codec actually used depends on what the connected headphones or speaker supports. The codec can also be selected in the companion app.

1. aptX is a trademark of Qualcomm Technologies International, Ltd. ↩

2. LDAC is a trademark of Sony Corporation. ↩

2.2 Auracast broadcast

Auracast is the broadcast feature of Bluetooth LE Audio: one transmitter sends a single audio stream that any number of Auracast receivers nearby can join.

ST08 supports Auracast **broadcast transmit**. In the companion app you can set:

- **Broadcast name** — the name receivers see when they scan for broadcasts
- **Broadcast password** — so only people who know the password can listen

3 App control

ST08 is managed with Gigawit Control, Gigawit's Bluetooth companion app, available on the **web**, **Android** and **iOS**.

Function	What it does
Connection settings	Scan, pair, reconnect, unpair or disconnect Bluetooth devices
Broadcast settings	Auracast broadcast name and password
EQ	Five presets plus two fully customizable slots
Firmware updates	Install new firmware for bug fixes and new features

4 Revision history

Rev	Date	Changes
0.1	Sep 21, 2026	Initial sample, based on the ST08 specification sheet