



PRODUCT GUIDE

# ST06 Product Documentation

Introduces the ST06 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 ST06 specification sheet only; installation and operating instructions are in preparation.

ST06 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** ST06 Bluetooth USB-C transmitter

## 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
- **Pass-through charging** — a USB-C female port lets you charge the phone while ST06 is plugged in
- **App control** on the web, Android and iOS: connection settings, broadcast settings, EQ and firmware updates
- **Compact** — 37 mm × 24.2 mm × 7.6 mm, USB-powered, no battery to charge

# 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 plug + USB-C female port (pass-through phone charging)           |
| Power          | USB-powered (no battery)                                               |
| Display        | None                                                                   |
| Buttons        | 1 button (basic operation)                                             |
| App control    | Web / Android / iOS                                                    |
| App features   | Connection settings, broadcast settings, EQ, firmware updates          |
| Dimensions     | L 37 mm × W 24.2 mm × T 7.6 mm                                         |
| Weight         | 4.4 g                                                                  |

## 2 Features

This section describes the main functions of ST06:

- **Audio codecs** — which codecs are supported and when each is used
- **Auracast broadcast** — sending one audio stream to many receivers
- **Pass-through charging** — keeping the phone charged while in use

### 2.1 Audio codecs

ST06 supports the following Bluetooth audio codecs:

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

#### Tip

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

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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. Instead of pairing with one headphone, ST06 broadcasts a single audio stream that any number of Auracast receivers nearby can join.

ST06 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

## 2.3 Pass-through charging

Plugging ST06 into a phone occupies its only USB-C port. To solve this, ST06 has a **USB-C female port**: connect a charger to it, and the phone keeps charging while ST06 is in use.

ST06 itself is USB-powered and has no battery, so it never needs to be charged separately.

### 3 App control

ST06 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  | Set the 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 ST06 specification sheet |