Gigawit

PRODUCT GUIDE

ST05 Product Documentation

Introduces the ST05 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 ST05 specification sheet only; installation and operating instructions are in preparation.

ST05 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 ST05 product photo

Key features

- **Bluetooth 6.0** with SBC, aptX, aptX HD, aptX Adaptive and LDAC codecs
- **App control** on the web, Android and iOS: connection settings, EQ and firmware updates

- **USB-powered**, no battery to charge — L 26.7mm × W 17.2mm × T 7.7mm

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 not supported
Interface	USB-C
Power / Battery	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, etc.
Dimensions	L 26.7mm × W 17.2mm × T 7.7mm
Weight	3 g

2 Features

This section describes the main functions of ST05:

- **Audio codecs** — which codecs are supported

2.1 Audio codecs

ST05 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.

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1. aptX is a trademark of Qualcomm Technologies International, Ltd. ↩
2. LDAC is a trademark of Sony Corporation. ↩

3 App control

ST05 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
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 ST05 specification sheet