



PRODUCT GUIDE

EV160 Product Documentation

Introduces the EV160 desktop multi-interface Bluetooth audio transmitter
— features, interfaces, controls, specifications and app control.

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Overview

Note

This document is based on the Gigawit EV Series product manual. Available functions depend on the model, hardware version and installed firmware.

EV160 is a desktop multi-interface Bluetooth audio transmitter. It sends audio from a TV, computer, game console or other source wirelessly to Bluetooth headphones or speakers. USB is the default input, and it also offers several wired inputs and local outputs.



Figure 1 EV160 product photo

Key features

- **Bluetooth 6.0 transmit** on a Qualcomm QCC5181 chip, up to 96 kHz

- **LDAC first by default**, plus LHDC, aptX Adaptive, aptX HD, aptX LL, aptX and SBC (no AAC), with manual codec selection
- **Three LDAC bit rates:** 990 kbps (quality), 660 kbps (standard), 330 kbps (connection)
- **LE Audio and Auracast broadcast transmit**
- **Multiple inputs:** USB (default), RCA IN, optical, coaxial and HDMI ARC (ARC version)
- **Local outputs:** Optical OUT, Coaxial OUT and RCA OUT, working alongside Bluetooth transmit
- **Optical and coaxial digital paths up to 192 kHz / 24-bit**
- **Two pairing modes:** App and Auto
- **ARC version** adds HDMI CEC status prompts and infrared remote control
- **240 × 280 color display** with rotary encoder control
- **App control** with Gigawit Control

1 Specifications

Item	Specification
Series	Desktop
Positioning	Desktop multi-interface Bluetooth audio transmitter
Versions	ARC / Standard (Standard has no HDMI ARC)
Bluetooth	6.0
Bluetooth chip	Qualcomm QCC5181
Bluetooth role	Transmit
Codecs	LDAC / LHDC / aptX Adaptive / aptX HD / aptX LL / aptX / SBC (no AAC)
Default codec	LDAC first, selectable under Bluetooth → Codecs
LDAC bit rate	990 kbps (quality) / 660 kbps (standard) / 330 kbps (connection)
Bluetooth transmit sample rate	Up to 96 kHz
LE Audio	LC3 / aptX Lite / aptX Adaptive, Auracast transmit
USB audio input	Default input, up to 96 kHz / 24-bit
RCA IN	Yes
Optical IN / Coaxial IN	Up to 192 kHz / 24-bit
HDMI ARC input	ARC version
Optical OUT / Coaxial OUT	Up to 192 kHz / 24-bit
RCA OUT	Yes
Local outputs with Bluetooth	Work at the same time
Pairing modes	App / Auto
ARC version extras	HDMI CEC status prompts / infrared remote control
Power / Battery	External USB-C power, no battery; power port rated 5 V / 1 A

Item	Specification
Display	240 × 280 color display
Controls	Rotary encoder
App	Gigawit Control
Dimensions	88 × 105 × 38 mm
Weight	200 g

2 Features

This section describes the main functions of EV160:

- **Audio codecs** — supported codecs, default priority, manual selection and LDAC bit rates
- **Auracast** — transmitting Bluetooth LE Audio broadcasts
- **Display and controls** — the 240 × 280 color display, rotary encoder and pairing modes
- **Interfaces** — inputs, local outputs, the USB-C ports and the two versions

2.1 Audio codecs

EV160 transmits to Bluetooth headphones or speakers with the following codecs:

Codec	Notes
LDAC ¹	Sony high-resolution codec, highest priority by default
LHDC ²	High-resolution codec
aptX Adaptive	Adjusts bit rate to the radio conditions
aptX HD	Higher-resolution variant of aptX
aptX LL	Low-latency variant of aptX
aptX ³	Qualcomm codec
SBC	Mandatory baseline Bluetooth codec

Note

EV160 **does not support AAC**.

For LE Audio it supports LC3, aptX Lite and aptX Adaptive; Auracast broadcasts use LC3.

Bluetooth transmit supports up to **96 kHz**.

LDAC bit rates

With LDAC selected, you can switch between the three official bit rates under Bluetooth → Codecs:

Setting	Bit rate
Quality priority	990 kbps
Standard	660 kbps
Connection priority	330 kbps

Default priority and manual selection

EV160 gives **LDAC** the highest priority by default. You can choose a preferred codec under Bluetooth → Codecs.

The default priority does not force a codec on every connection. The codec actually used is negotiated from what both devices support and the current link conditions, and the display shows the codec in use.

Tip

If LDAC is selected but the other device does not support it, the connection automatically falls back to a codec both devices support.

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

2.2 Auracast

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.

EV160 supports Auracast **transmit**: it broadcasts the current input to nearby Auracast receivers. Auracast broadcast audio uses the LC3 codec. Broadcast settings are available in Gigawit Control.

Note

Classic Bluetooth and Auracast broadcast are separate operating modes. Follow the prompts on the device screen to choose between them.

2.3 Display and controls

EV160 has a **240 × 280 color display** with an on-screen menu, operated with the **rotary encoder** on the device. The display shows the Bluetooth codec currently in use.

Rotary encoder operation

Action	How
Power on	Press and hold the rotary encoder for about 1 second
Power off	Press and hold the rotary encoder for about 3 seconds
Open the menu	Press and hold the rotary encoder for about 1 second
Browse the menu	Turn the rotary encoder
Confirm	Short-press the rotary encoder
Adjust volume on the Home page	Turn the rotary encoder on the Home page
Choose the Home page	Hold the rotary encoder for about 3 seconds, turn to select, then short-press to confirm
Pair	Bluetooth → Pair, or double-press to enter pairing
Choose a codec	Bluetooth → Codecs
Factory reset	System → Factory Reset

Pairing modes

The Bluetooth page offers two pairing modes:

Mode	Description
App	Choose the target headphones in Gigawit Control
Auto	Search for the target headphones with the automatic pairing flow

ARC version extras

The ARC version supports HDMI CEC status prompts and infrared remote control.

2.4 Interfaces

Inputs

Interface	Notes
USB-C (USB-marked port)	USB Audio input, default input , up to 96 kHz / 24-bit
RCA IN	Analog audio input
Optical IN	Optical SPDIF input, up to 192 kHz / 24-bit
Coaxial IN	Coaxial SPDIF input, up to 192 kHz / 24-bit
HDMI ARC	ARC version only

Outputs

Interface	Notes
Bluetooth transmit	To Bluetooth headphones or speakers; see Audio codecs
Optical OUT	Optical SPDIF output, up to 192 kHz / 24-bit
Coaxial OUT	Coaxial SPDIF output, up to 192 kHz / 24-bit
RCA OUT	Analog audio output

Optical OUT, Coaxial OUT and RCA OUT **work alongside Bluetooth transmit**.

Note

Optical and coaxial are both SPDIF digital interfaces. When using an optical, coaxial or HDMI ARC input, make sure the source is actually outputting audio.

USB-C ports

The rear panel has two USB-C ports:

Port	Use
USB-marked port	USB Audio data port; can also supply power to an external device (a phone is one example)
Lightning-bolt-marked port	Dedicated power port, rated 5 V / 1 A; does not carry USB audio

The device can run from a computer or phone on the USB-marked port alone; with a phone, this increases the phone's battery drain.

Tip

For USB audio, connect the **USB-marked port**. The lightning-bolt-marked port supplies power only and carries no audio.

Versions

Version	Difference
ARC	Has an HDMI ARC port
Standard	No HDMI port; otherwise identical

3 App control

EV160 is managed with **Gigawit Control**, Gigawit's companion app, available on the **web**, **Android** and **iOS**.

Function	What it does
Connection and pairing	Device connection and pairing settings; in App pairing mode, choose the target headphones in the app
Codecs and broadcast	Bluetooth codec and Auracast broadcast settings
Firmware updates	Install new firmware

Available functions depend on the model, hardware version and installed firmware.

4 Getting started

1. Connect a source

USB is the default input on EV160. Connect a computer or phone to the **USB-marked port**. A TV can use optical, coaxial or HDMI ARC (ARC version), and other analog sources connect to RCA IN.

To play through local speakers at the same time, connect Optical OUT, Coaxial OUT or RCA OUT to an amplifier or powered speakers.

2. Power on

1. Connect power to the lightning-bolt-marked port. The device can also run from a computer or phone on the USB-marked port alone, but a phone will drain faster.
2. Press and hold the rotary encoder for about 1 second to power on.

3. Pair headphones or speakers

1. Put your Bluetooth headphones or speakers into pairing mode.
2. On the Bluetooth page, choose a pairing mode:
 - **App** — choose the target headphones in Gigawit Control.
 - **Auto** — search for the target headphones with the automatic pairing flow.
3. You can also go to Bluetooth → Pair, or double-press to enter pairing.

4. Choose a codec (optional)

EV160 uses LDAC first by default. To set a preferred codec, go to Bluetooth → Codecs. With LDAC selected, you can choose quality priority (990 kbps), standard (660 kbps) or connection priority (330 kbps).

5. Adjust volume

Turn the rotary encoder on the Home page to adjust volume.

Factory reset

Go to System → Factory Reset.

See Features → Display and controls for all operations.

5 Revision history

Re v	Date	Changes
0.2	Sep 24, 2026	Updated specifications, codecs, Auracast, interfaces, controls and app information from the EV Series product manual
0.1	Sep 21, 2026	Initial sample, based on the EV160 specification sheet