



PRODUCT GUIDE

EV156 Product Documentation

Introduces the EV156 desktop multi-source audio decoding hub — features, interfaces, controls, specifications and app control.

Doc No. GW-EV156-UG

Rev 0.3

Updated Sep 24, 2026

Table of contents

Overview

1 Specifications

2 Features

2.1 Audio codecs

2.2 Auracast

2.3 Display and controls

2.4 Interfaces

3 App control

4 Getting started

5 Revision history

Overview

Note

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

EV156 is a desktop multi-source audio decoding hub that combines Bluetooth receive, multiple wired inputs, digital outputs and an analog output. It suits TVs, computers, CD players and traditional hi-fi systems. An external CS43198 DAC delivers high-quality RCA analog output.



Figure 1 EV156 product photo

Key features

- **Bluetooth 6.0** on a Qualcomm QCC3084 chip

- **LDAC first by default**, plus aptX Adaptive, aptX HD, aptX LL, aptX, AAC and SBC, with manual codec selection
- **LE Audio LC3 and Auracast receive**
- **Multiple inputs:** Bluetooth, USB, optical, coaxial, RCA IN and HDMI ARC (ARC version)
- **Three simultaneous outputs:** Optical OUT, Coaxial OUT and RCA OUT
- **CS43198 DAC** driving RCA OUT
- **USB input up to 96 kHz / 24-bit**, optical and coaxial inputs up to 192 kHz / 24-bit
- **240 × 280 color display** with rotary encoder control
- **EQ adjustment**
- **Two versions:** ARC with an HDMI ARC port, Standard without; otherwise identical
- **App control** with Gigawit Control

1 Specifications

Item	Specification
Series	Desktop
Positioning	Desktop multi-source audio decoding hub
Versions	ARC / Standard (Standard has no HDMI ARC)
Bluetooth	6.0
Bluetooth chip	Qualcomm QCC3084
Bluetooth role	Receive
Codecs	LDAC / aptX Adaptive / aptX HD / aptX LL / aptX / AAC / SBC
Default codec	LDAC first, selectable under Bluetooth → Codecs
LE Audio	LC3, Auracast receive
USB audio 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	Driven by a CS43198 DAC
Power / Battery	External USB-C power, no battery; power port rated 5 V / 1 A
Display	240 × 280 color display
Controls	Rotary encoder
Sound adjustment	EQ
App	Gigawit Control
Dimensions	106 × 105 × 38 mm
Weight	230 g

Audio performance (RCA OUT)

Item	Value
THD+N	≤ 0.00039%
SNR	120 dB
Noise floor	1 μVrms
Frequency response	20 Hz – 50 kHz (–2 dB)

2 Features

This section describes the main functions of EV156:

- **Audio codecs** — supported codecs, default priority and manual selection
- **Auracast** — receiving Bluetooth LE Audio broadcasts
- **Display and controls** — the 240 × 280 color display and rotary encoder
- **Interfaces** — inputs, the three outputs, the USB-C ports and the two versions

2.1 Audio codecs

EV156 supports the following Bluetooth audio codecs:

Codec	Notes
LDAC ¹	Sony high-resolution codec, highest priority by default
aptX Adaptive	Adjusts bit rate to the radio conditions
aptX HD	Higher-resolution variant of aptX
aptX LL	Low-latency variant of aptX
aptX ²	Qualcomm codec
AAC	Widely used general-purpose codec
SBC	Mandatory baseline Bluetooth codec
LC3	LE Audio codec, used for Auracast broadcasts

Default priority and manual selection

EV156 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. 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.

EV156 supports Auracast **receive**: it can join a broadcast from a nearby Auracast transmitter and play the audio through its outputs. Auracast broadcast audio uses the LC3 codec.

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

EV156 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

Sound adjustment

The menu provides **EQ** adjustment.

2.4 Interfaces

Inputs

Interface	Notes
Bluetooth	Bluetooth receive; see Audio codecs
USB-C (USB-marked port)	USB Audio 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
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, driven by a CS43198 DAC

Optical OUT, Coaxial OUT and RCA OUT **output at the same time**.

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 the USB-marked port alone; for extended use, also connect the lightning-bolt-marked port.

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

EV156 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
Codecs and broadcast	Bluetooth codec and Auracast broadcast settings
EQ	EQ adjustment
Firmware updates	Install new firmware

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

4 Getting started

1. Connect sources and speakers

1. Connect each source to its input: a computer or phone to the USB-marked port, a TV to optical, coaxial or HDMI ARC (ARC version), and analog sources such as a CD player to RCA IN.
2. Connect Optical OUT, Coaxial OUT or RCA OUT to your amplifier, powered speakers or other audio equipment. All three outputs are active at the same time.

2. Power on

1. Connect power to the lightning-bolt-marked port. The device can also run from the USB-marked port alone, but for extended use connect both.
2. Press and hold the rotary encoder for about 1 second to power on.

3. Pair your phone (Bluetooth input)

1. Go to Bluetooth → Pair, or double-press to enter pairing.
2. Select the device in your phone's Bluetooth settings to pair.

4. Choose a codec (optional)

EV156 uses LDAC first by default. To set a preferred codec, go to Bluetooth → Codecs. The display shows the codec in use.

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.

Tip

When using an optical, coaxial or HDMI ARC input, make sure the source is actually outputting audio.

5 Revision history

Re v	Date	Changes
0.3	Sep 24, 2026	Added RCA OUT audio performance to Specifications
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 EV156 specification sheet