

ROSE AIR Lite



RW800

The ultimate streaming solution
for a complete Hi-Fi system



Product Overview

A smart streaming solution to complete your Hi-Fi system

The RW800 is a USB-based high-performance streaming module that lets you add the latest streaming features to HiFi ROSE systems with ease. Expand your streaming capabilities by connecting to a HiFi ROSE streamer with just a USB-C cable and no complicated setup, or use it on its own by connecting directly to an amplifier or active speakers. Just one connection provides the most practical upgrade solution for improved system versatility and overall performance.



Product Design

A Compact Design That Fits Perfectly in Any High-End Audio Rack

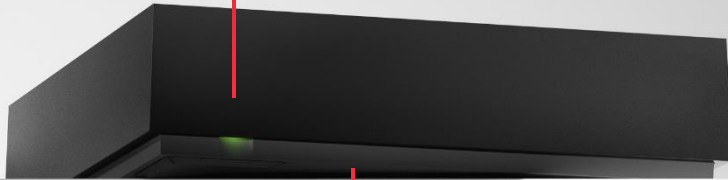
With a compact design that minimizes space requirements, the RW800 integrates seamlessly into existing audio environments.

The glossy logo on the top clearly conveys the brand identity, while the indirect LED diffuser on the bottom provides a user-centric experience that reduces visual distractions during listening. The minimalist interface eliminates unnecessary complexity while providing intuitive connectivity, enabling users to easily expand and utilize the capabilities of their existing system.

Status Indicator



Indirect LED diffuser on the bottom displays the device status with indicator lighting



Bottom Cover

Dark gray finish with anti-vibration silicone feet

Top Cover

PC + ABS material with a black finish and the ROSE glossy logo to visually reinforce the brand identity



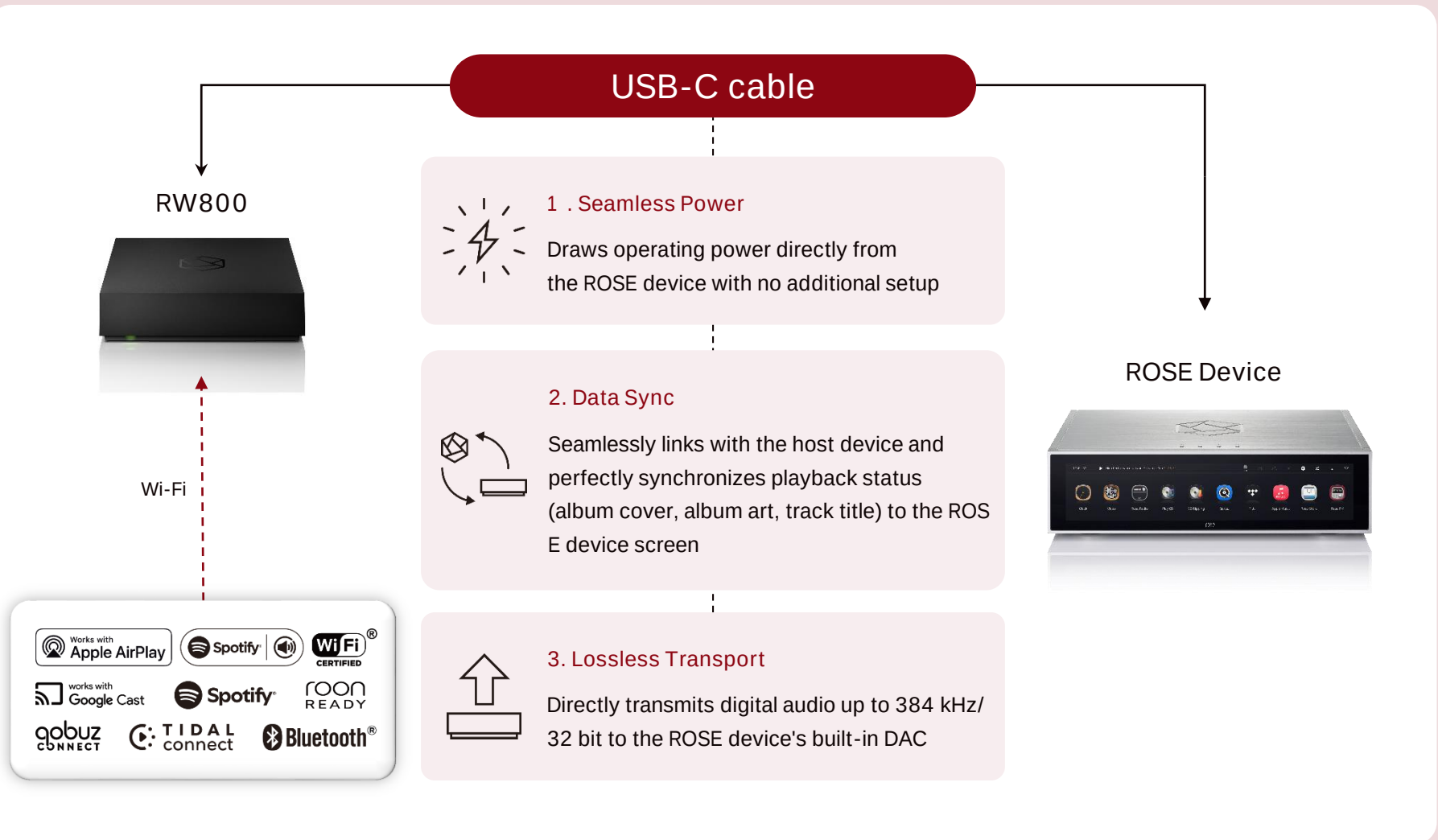
I/O Panel

Intuitive analog and digital interface



Stable and reliable connection via USB

Expand your HiFi ROSE system with a single USB cable—no complex setup required.



One Device, Two Operating Modes

The RW800 performs a completely different function depending on what it is connected to.

Operating Mode	Expansion (CH Mode)	Standalone (SA Mode)
Connectable Devices	HiFi ROSE device(s)	Third-party integrated amplifier, active speakers, external DAC
Key Features	Streaming network expansion module	Fully standalone streaming player
Connection Method	Connect with just a USB-C cable	RCA (Analog), Opt In/Out + USB 5 V Power Supply
Power supply	Host power supply via USB-C	USB-C power adapter (5 V/1.5 A) required.
Operation Method	HiFi ROSE Devices & Dedicated ROSE AIR app	Dedicated ROSE AIR app
Compatible Devices	HiFi ROSE streamers RS151, RS130, RS250A, RS451 RS150B, RS201E	Integrated amplifiers, active speakers, and external DACs from any brand • Recommended System: RD160 DAC, RA180/RA280 Integrated Amplifier

Expansion: Streaming upgrade for HiFi ROSE users (CH Mode)

Expand your HiFi ROSE System.

Host Sync

The network experience provided by the RW800 focuses on minimizing setup. Regardless of whether it's a wired or wireless environments, the RW800 automatically discovers devices and achieves stable synchronization (Host Sync) with the host device. This ensures not only connection convenience but also data transmission integrity, further enhancing the sound performance of the entire system. Additionally, playback status (album cover art, track title) is synchronized identically on all ROSE device screens for a consistent user experience.

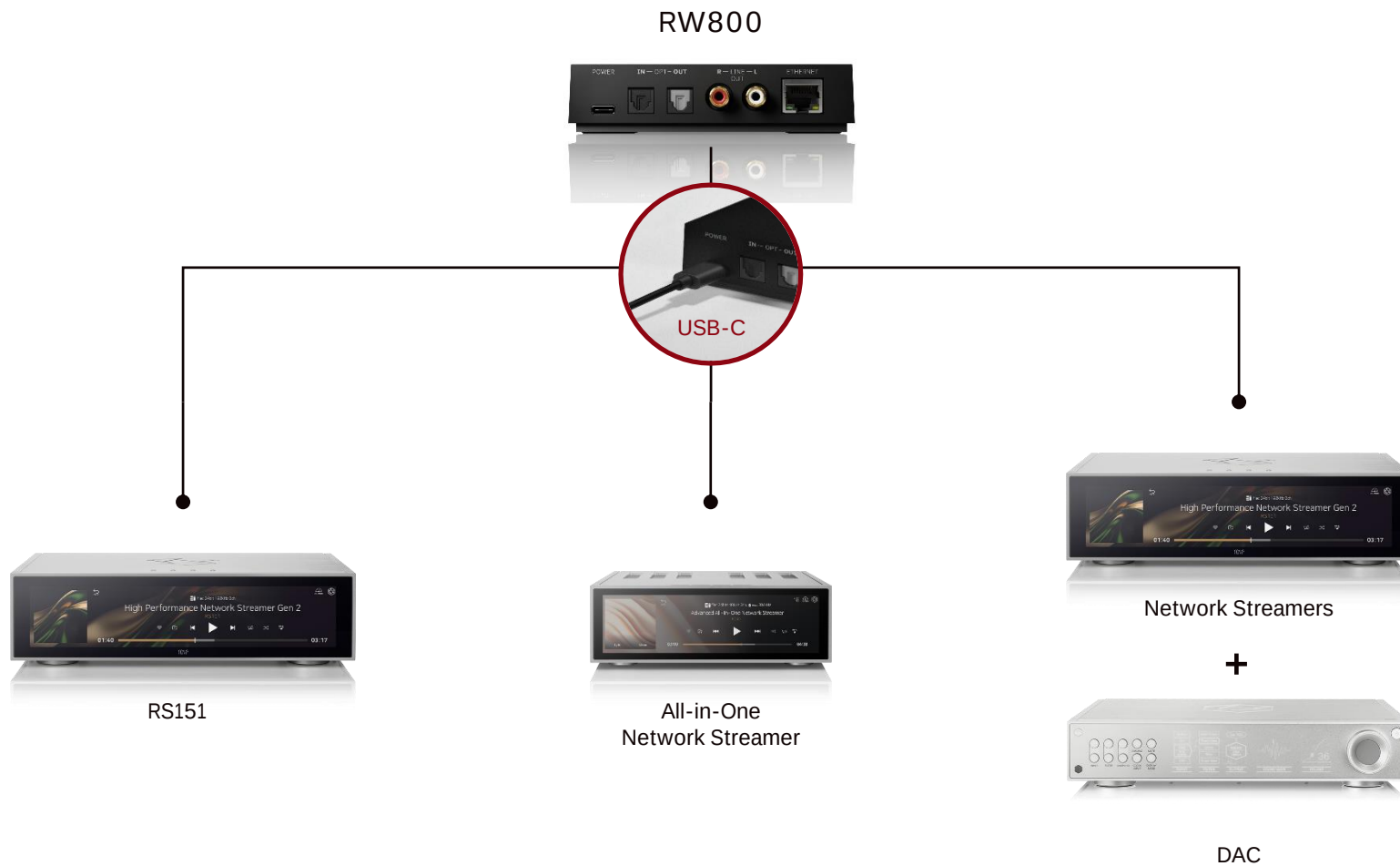
Complete Integration

With the RW800, you can easily expand the modern streaming environment to various ROSE products, such as the RS151 and RS520. Simply connect to an existing system to create a single integrated audio system, from network streaming to playback control, with no complicated setup. More than simply adding features, we have improved overall system connectivity stability and data-processing efficiency to deliver a more refined sound environment.

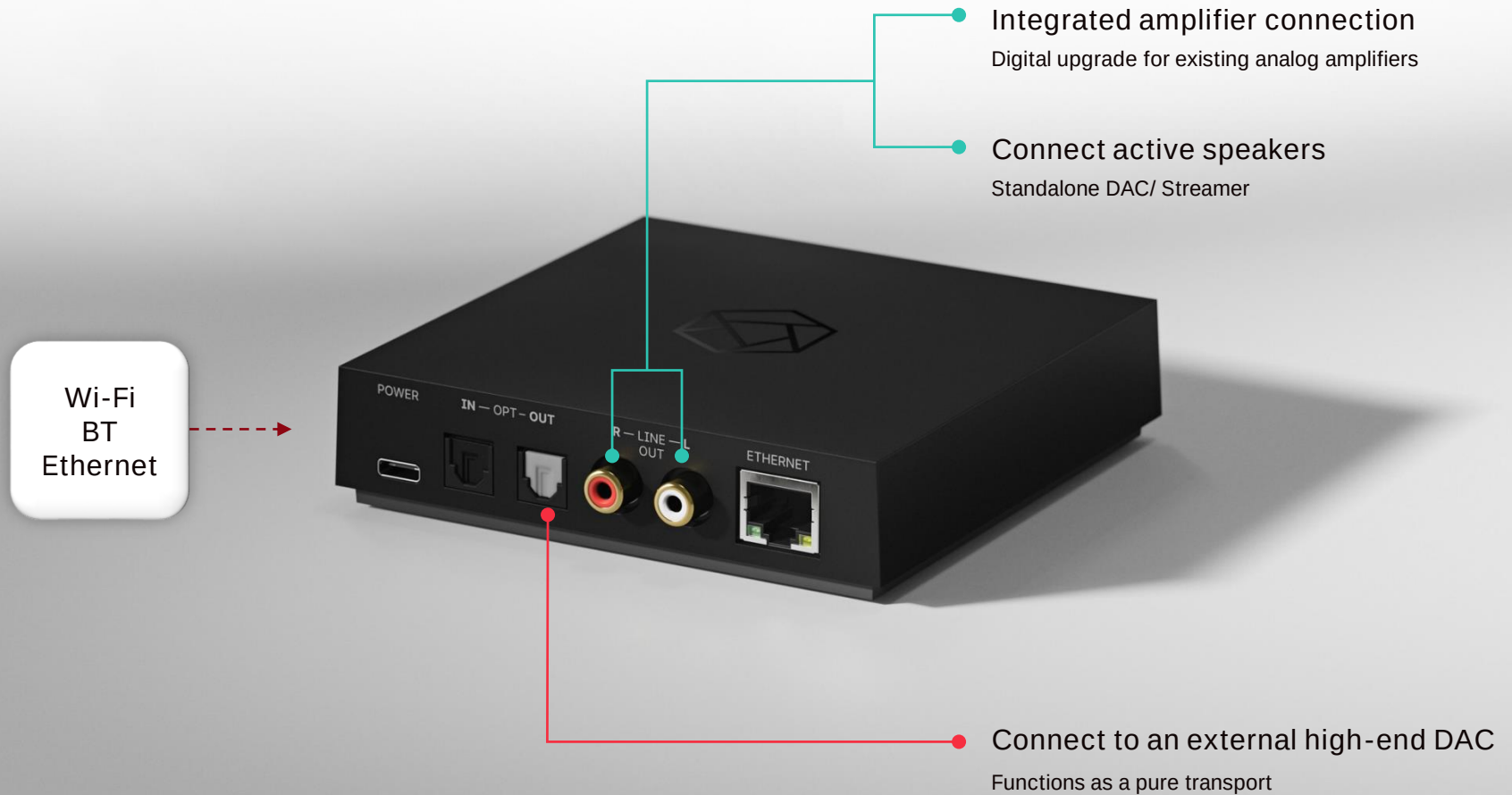


Guide to Connecting ROSE Devices

Expansion (CH Mode): Expand streaming with the RW800 and ROSE devices

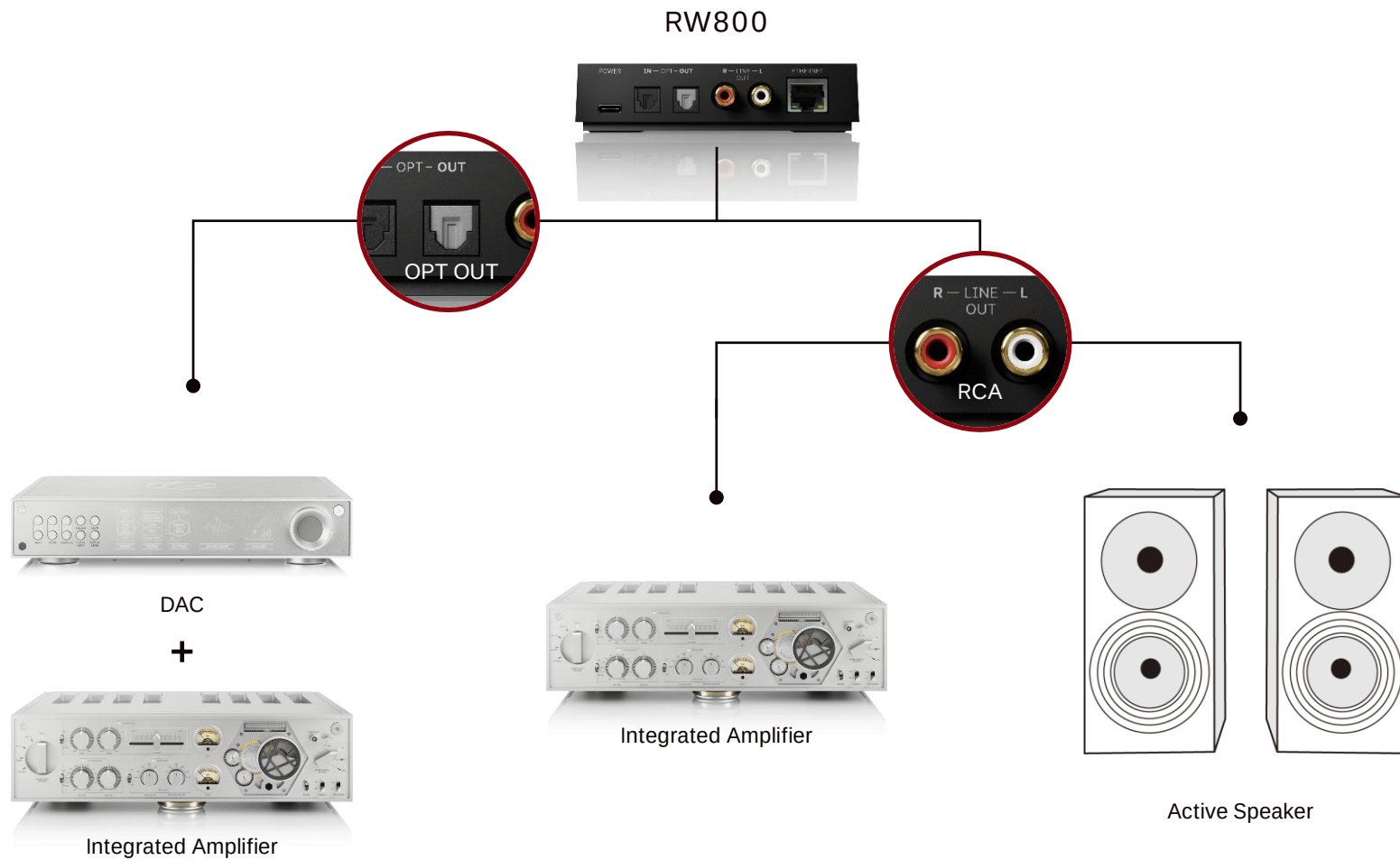


Standalone: Functions as an independent DAC streamer (SA Mode)



Connection Guide

Standalone (SA Mode): Using the RW800 as a Standalone DAC/ Streamer



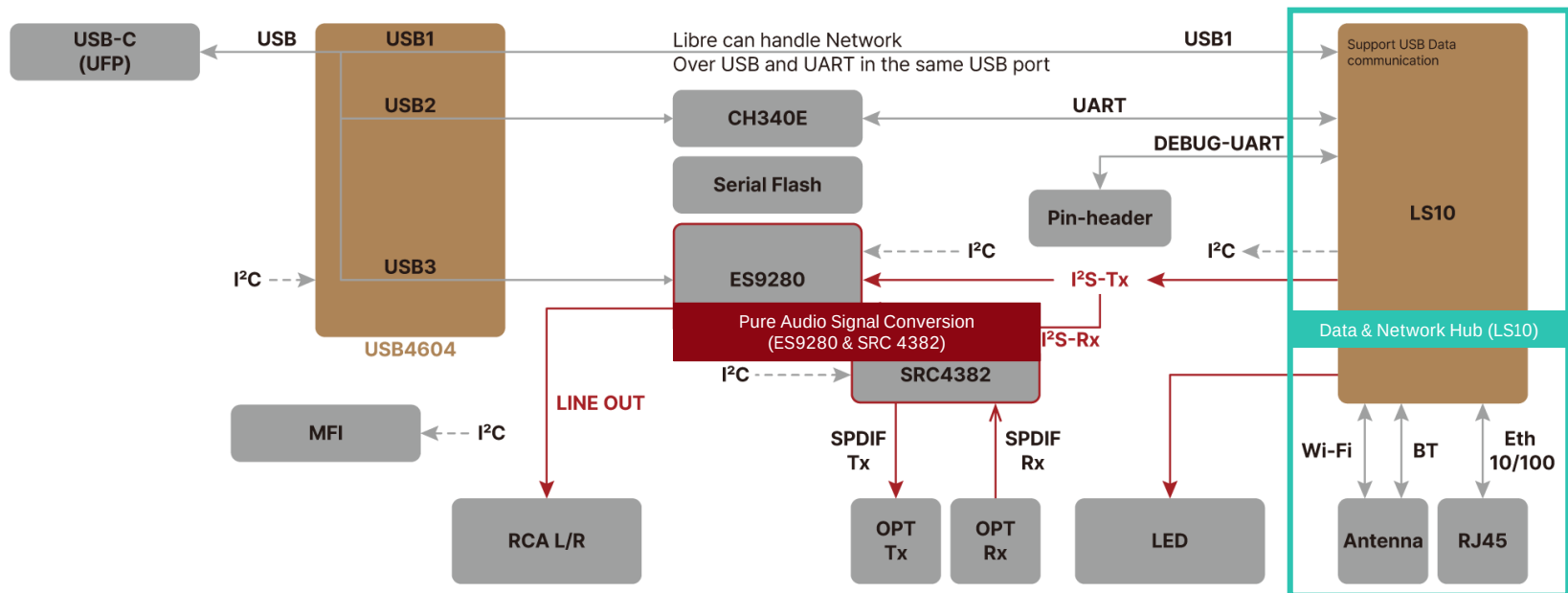
Hardware Architecture That Enhances Sound Quality

Designed with a structure that separates data and audio signals, ensuring both stability and sound quality

The RW800 is more than a simple wireless receiving module. It has adopted a high-performance audio architecture optimized for maximum sound quality, with data processing and audio signal conversion separated into independent chipsets by design. This structure effectively blocks interference between functions and plays a key role in delivering a more refined, cleaner sound.

The LS10 module, at the core of network processing, provides a stable network connection environment by integrating support for dual-band Wi-Fi, Bluetooth 5.2, and Ethernet, while the ES9280 DAC faithfully reproduces the details of the original sound with high-precision I2S conversion, 119dB SNR, and 0.0008% THD+N performance. In addition, the SRC4382 processor supports reliable integration with various digital devices by processing signals up to 192 kHz/24 bit with no latency.

As a result, the RW800 is more than a simple connection device;
it is a network audio solution that elevates the sound quality of the entire system to the next level.



Data-Audio Separation Architecture That Blocks Noise

Uncompromising Hi-Res Specifications

USB Hi-Res Depth

**32-bit/
384kHz**

SNR

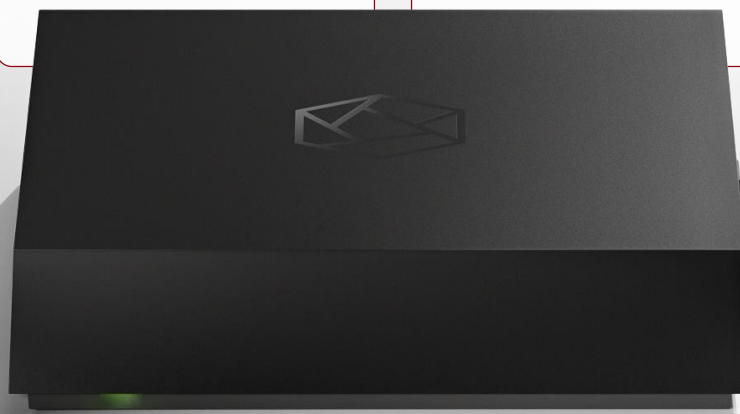
119dB

RCA Analog Output

2Vrms

THD+N (Analog)

-102dB



Digital Out (USB)

PCM 32 bit/ 384 kHz
Hi-Res Audio
Lossless Output



Digital I/O (SPDIF OPT)

Up to 192 kHz/24 bit
High-Resolution
Sampling Rates
Fully Supported



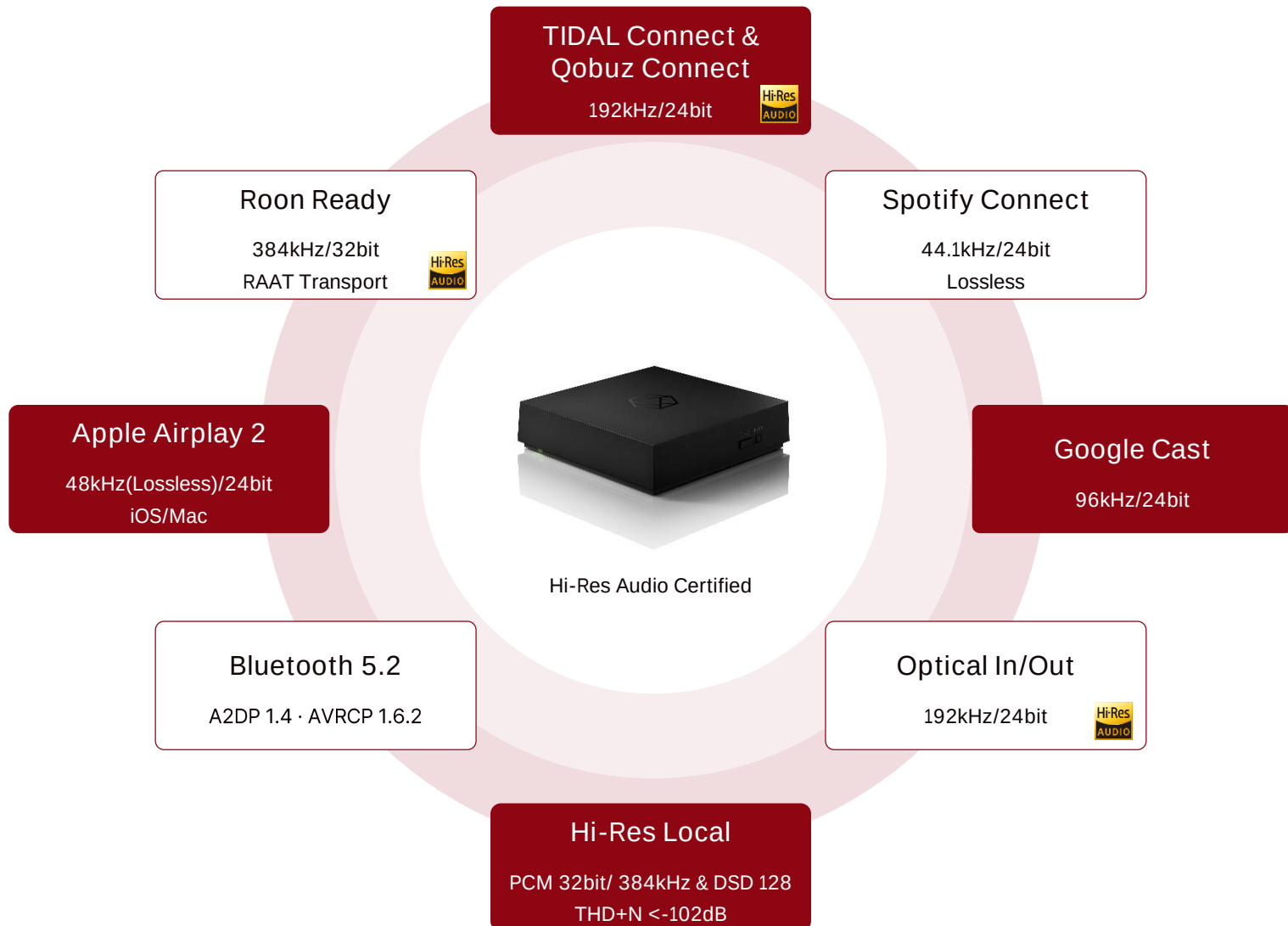
Analog Out (RCA L/R)

Max 2 Vrms Output Guaranteed
THD + N < -102dB
Extremely transparent
sound quality (0.0008%)



Enhanced Streaming Capability Across All Platforms

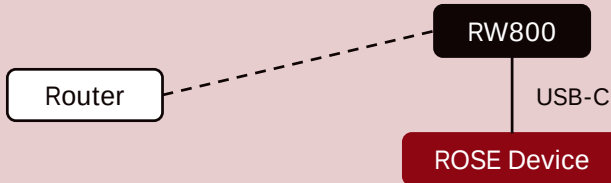
Expansion without interruption, compatible with all streaming platforms.



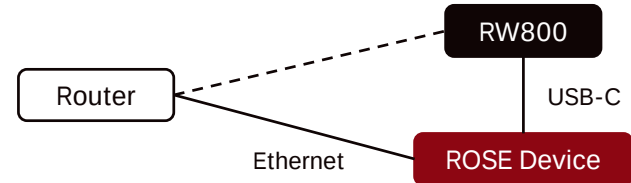
Simple Network Setup

No.	Network Configuration According to Installation Environment	System Configuration and Connections
1	Maximized Installation Convenience (Wireless Bridge Method)	RW800 (Wi-Fi) Connection → ROSE Host (Internet Sharing)
2	Efficient Expansion (Hybrid Method)	RW800 (Wi-Fi) ↔ ROSE Host (Ethernet)
3	Flawless Stability (Wired Ethernet Method)	RW800 (Ethernet) ↔ ROSE Host (Ethernet)
4	Wired Expansion (Wired Bridge Mode)	RW800 (Ethernet) ↔ ROSE Host (Internet Sharing)

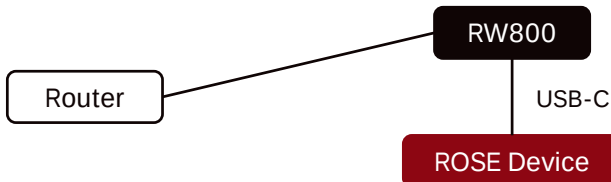
1. Maximized Installation Convenience (Wireless Bridge Method)



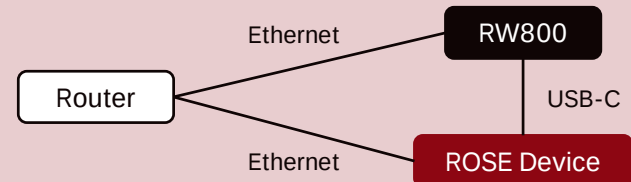
2. Efficient Expansion (Hybrid Method)



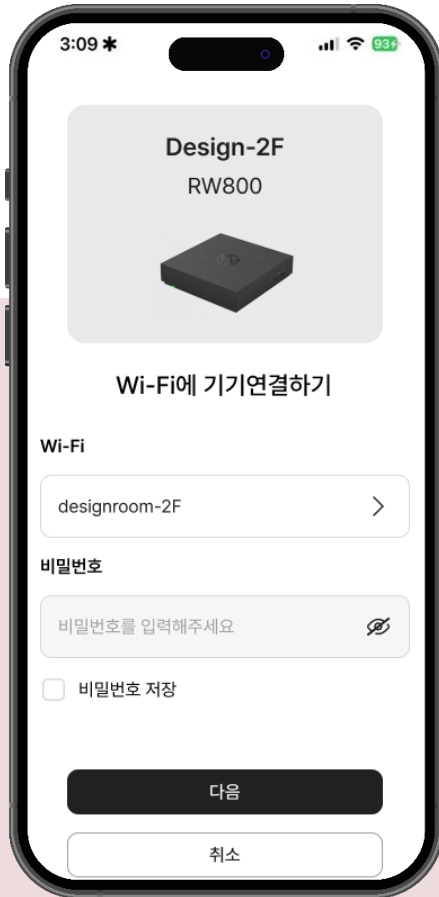
4. Wired Expansion (Wired Bridge Mode)



Flawless Stability (Wired Ethernet Method)

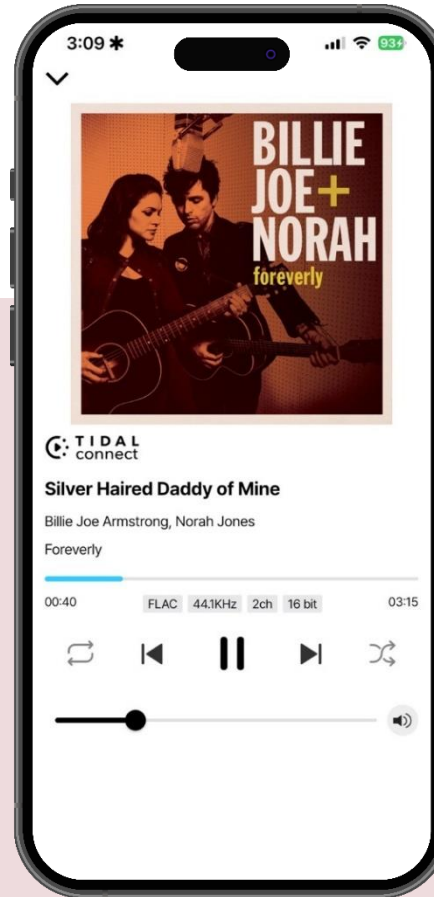


The ROSE AIR app, for a Complete User Experience



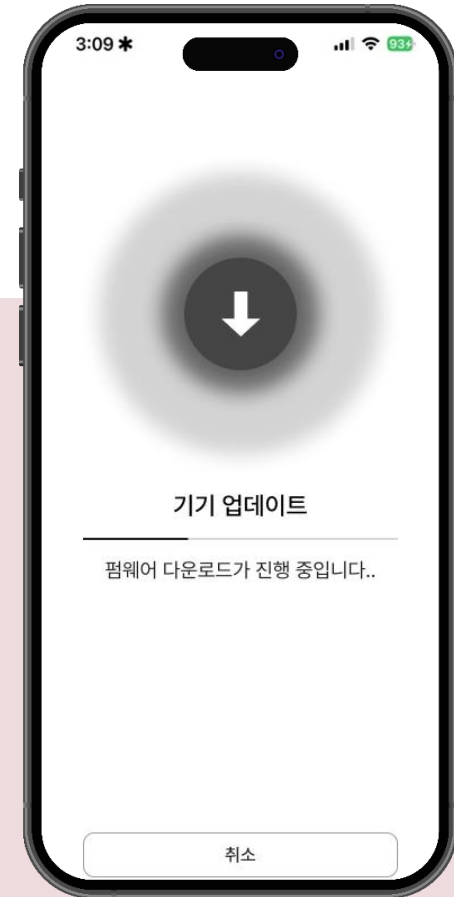
1. Quick, Intuitive Setup

The ROSE AIR app automatically detects the device and sets up Wi-Fi via Bluetooth.



2. Total Playback Control in the Palm of Your Hand

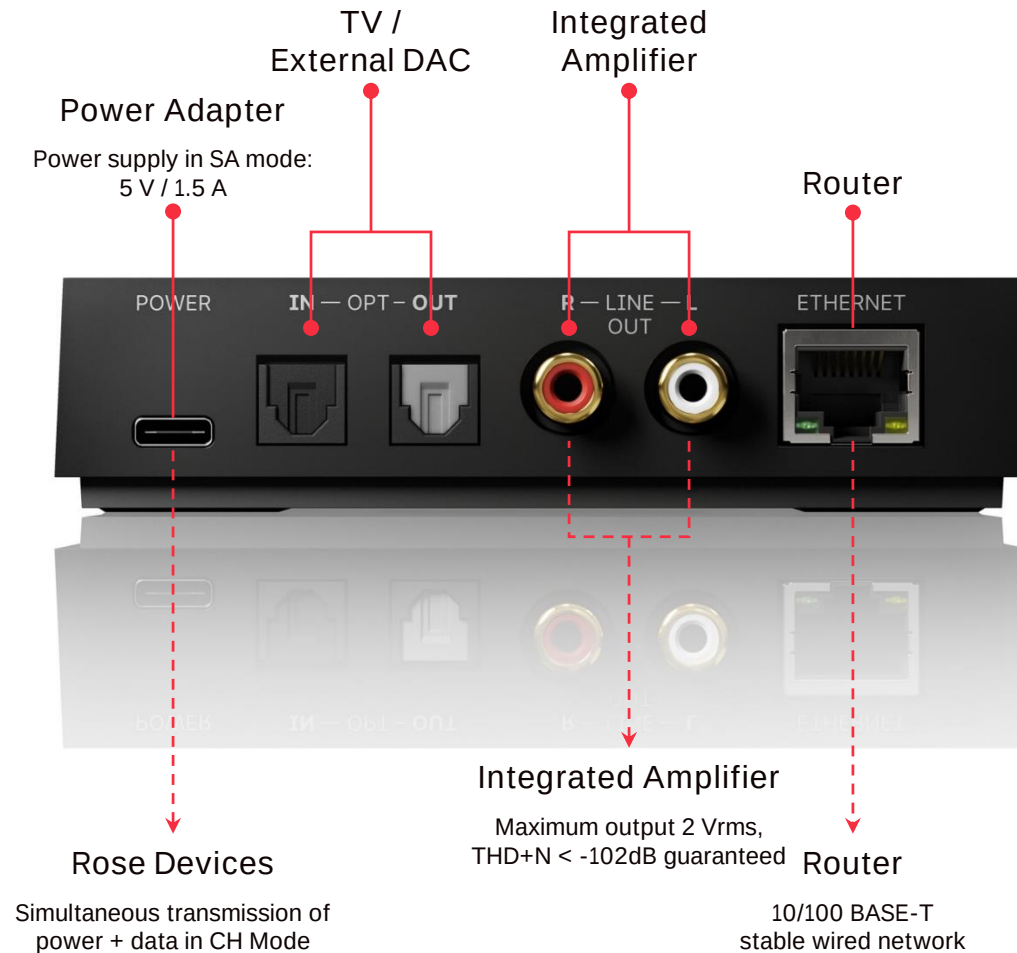
Control all playback functions — Play, Pause, Seek, Shuffle, and more — from a single app with an intuitive UI.



3. Smart System Management

The ROSE AIR app offers integrated management of OTA updates, device settings, factory reset and more. (Android & iOS supported)

Intuitive digital-analog connection layout



- CH Mode: Expanded
- SA Mode: Standalone

Six Key Features That Define This Streaming Solution

From upgrading existing customers to winning over new ones, everything is accomplished with a single module.

1 Upgrade of the Existing System

Older ROSE devices and amplifiers that do not support streaming can be upgraded without replacing the entire system.

2 Unlimited Compatibility

Supports TIDAL, Spotify, Qobuz, Roon, AirPlay, and Google Cast.

3 Audio Specifications



Up to 32 bit/384 kHz via USB audio.
Uncompromising lossless sound quality backed by THD + N -102dB support.

4 Easy Installation and Setup

Connect a ROSE device with just a USB-C cable.
Set up Wi-Fi in seconds using the ROSE AIR app.
No complicated installation required.

5 Dual Mode Versatility

Targeting Two Markets Simultaneously:
HiFi ROSE Users (CH Mode) and
Standalone Amplifier Speaker Users (SA Mode)

6 Minimalist Design

110 × 110 × 27 mm matte black finish that suits any hi-fi rack Minimalist design that preserves the elegance of the space. Power consumption: 2 W.

Technical Specifications

Line Outputs	Impedance	10Ω			
	Output Level	2Vrms			
	THD+N	0.0008% (1kHz, 2Vrms)			
	Signal to Noise Ratio	119dB			
	Dynamic Range	120dB			
	Stereo Crosstalk	130dB			
	Frequency Response	10Hz – 50kHz (+/-1dB)			
	Sampling Rate	PCM	8kHz – 384kHz(24/32bit per Sample)		
DSD		up to DSD128(5.6MHz)			
Supported File Formats	Audio	MP3, MP4, AAC-LC, AAC-HE, AAC-LTP, HE-AACv1, HE-AACv2, LPCM, AIFF, AMR-NB, AMR-WB, FLAC, OGG-Vorbis, WAV, ALAC, Opus and APE			
Input	Digital	Optical PCM 32bit/192kHz			
Outputs	Digital	Optical	PCM 32bit/192kHz		
	Analog	Unbalanced			
Network	Connectivity	Ethernet	10/100 BASE-T(1Port)		
		Wi-Fi	Dual Band 802.11 a/b/g/n/ac		
		Bluetooth	V5.2 (A2DP1.4, Sink, AVRCP v1.6.2)		
	Operation Frequency (Max Power)	Wi-Fi	2.4G	2,412 – 2,472MHz (13.9 dBm)	
			5.G	5,150 – 5,350MHz (13.36 dBm)	
			5.8G	5,725 – 5,875MHz (7.52 dBm)	
		Bluetooth	2,402 – 2,480MHz (8.6 dBm)		
	Streaming Protocol	Bluetooth, GC4A, AirPlay2, DLNA/UPnP, Roon Ready, Spotify Connect			
Power	Input Voltage	DC5V, 1.5A			
	Power Consumption	Network Standby	< 1.6W		
		Idle	< 2.0W		
Playback		< 2.5W			
Environmental	Operating °C	0°C – 40°C			
	Storage °C	-10°C – 50°C			
Physical	Dimension	110(W) × 115.5(D) × 27(H) mm			
	Weight	245g			
	Material	PC/ABS Blend			
	Finish	Black			



Expand your musical possibilities with a single connection.

The smartest choice for taking an existing system to the next level,

RW800

