Specifications

OS	Customized Android 7.1

Design

Size	430(W) x 317(D) x 125(H) mm
Weight	12kg
Display	15.4" TFT LCD & Capacitive Touch Screen (eDP)
CPU	Dual-Core Cortex-A72 and Quad-Core Cortex-A53 with separate NEON coprocessor
GPU	ARM Mali-T860 MP4 Quad-Core GPU
Memory	LPDDR4 4GB
Cache Storage	NVMe SSD 256GB

Network Connection

Network	SFP Ethernet 10/100/1000 BASE-T(SFP COPPER Type)
	WiFi 802.11ac Dualband USB Wireless LAN Card (Dongle)
Bluetooth	V4.2 (USB Dongle)

Audio Service

Streaming	Airplay / DLNA / Roon Ready / Spotify Connect / Bluetooth
Music Service	TIDAL / Qobuz / Apple Music / Bugs / ROSE Tube / Internet Radio /ROSE Podcast

In/Output

Audio Output	Optical x 1, Coaxial x 1, AES/EBU OUT x1, HDMI I2S OUT x 1
Video Output	HDMI 2.0 x 1(up to 3840 x 2160 / 60Hz)
Media Connection	File System : NTFS / exFAT / FAT32 Network Protocol : SMBv2 / FTP / WebDav Storage Interface : USB3.0 x 2, SATA x 1, USB 3.0 Fiber
Clock Sync Input	50Ω BNC x 1, 75Ω BNC x 1 Inputable Frequency : 10MHz

Supported Codec

Audio	MQA, WAV, FLAC, AIFF, WMA, MP3, OGG, APE, DFF, DSF, AAC, CDA, AMR, APE, EC3, E-EC3, MID, MPL, MP2, MPC, MPGA, M4A, ALAC, PCM : 8kHz~768kHz(8/16/24/32bit per Sample), Native DSD : DSD64(2.8MHz)/ DSD128(5.6MHz)/DSD256(11.2MHz)/ DSD512(22.4MHz)
Video	ASF, AVI, MKV, MP4, WMV H.264/AVC, Base/Main/High/High10 profile @ level 5.1; up to 4Kx2K @ 30fps H.265/HEVC, Main/Main10 profile @ level 5.1 High-tier; up to 4Kx2K @ 60fps VP9, profile 0, up to 4Kx2K @ 60fps MPEG-1, ISO/IEC 11172-2, up to 1080P @ 60fps MPEG-2, ISO/IEC 13818-2, SP@ML, MP@HL, up to 1080P @ 60fps MPEG-4, ISO/IEC 14496-2, SP@L0-3, ASP@L0-5, up to 1080P @ 60fps VC-1, SP@ML, MP@HL, AP@L0-3, up to 1080P @ 60fps
Power	Input Voltage : AC100-240V 50/60Hz Circuit Breaker : 6A Thermal Circuit Breaker
Update	SW update via internet, USB OTA, ROSE Store

Remote Control Feature

|	
Remote Controller	IR Remote Control, Bluetooth Remote Control
Remote App	ROSE Connect (Android, iOS, PC)
Accessory	Power Cord x 1, Remote Controller x 1 (AAA Battery x 2), Manual x 1, SSD Screw x 4 SFP RJ45 COPPER TRANSCEIVER MODULE x 1, WiFi/BT Dongle x 1

Front

Favorite   Mute   Play/Pause   Power

ROSE-B2 ▶ Ultimate Network Transport RS130   ● EXT 75Ω INTERNAL 30 min

ROSE Radio   Apple Music   Tidal   Qobuz   Home   Video   CD Play   RoseTube   Podcast

IPS Panel

Rear

Circuit Breaker   GND   Coaxial Out   AES/EBU Output   Optical Output   EXT Clock Input   I2S Output

AC Inlet   HDMI Output   USB-DAC   USB3.0   USB3.0 FIBER   Ethernet COPPER or FIBER
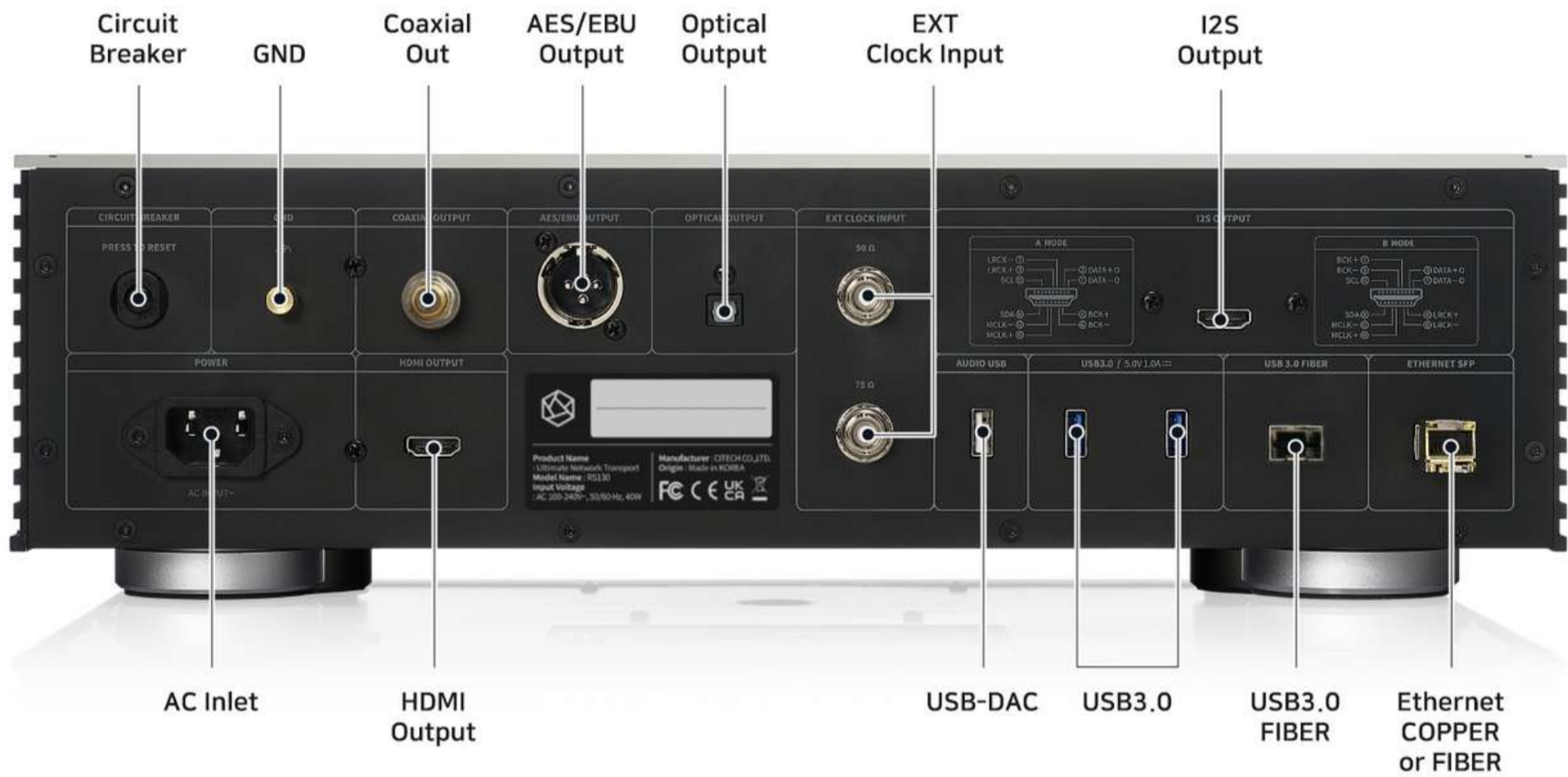
Connect anything

You can enjoy seamless streaming through the network. It supports Airplay and DLNA functions.
Also, you can connect the device to a smartphone, computer, or tablet PC through
WiFi / Giga Ethernet / Bluetooth communications.
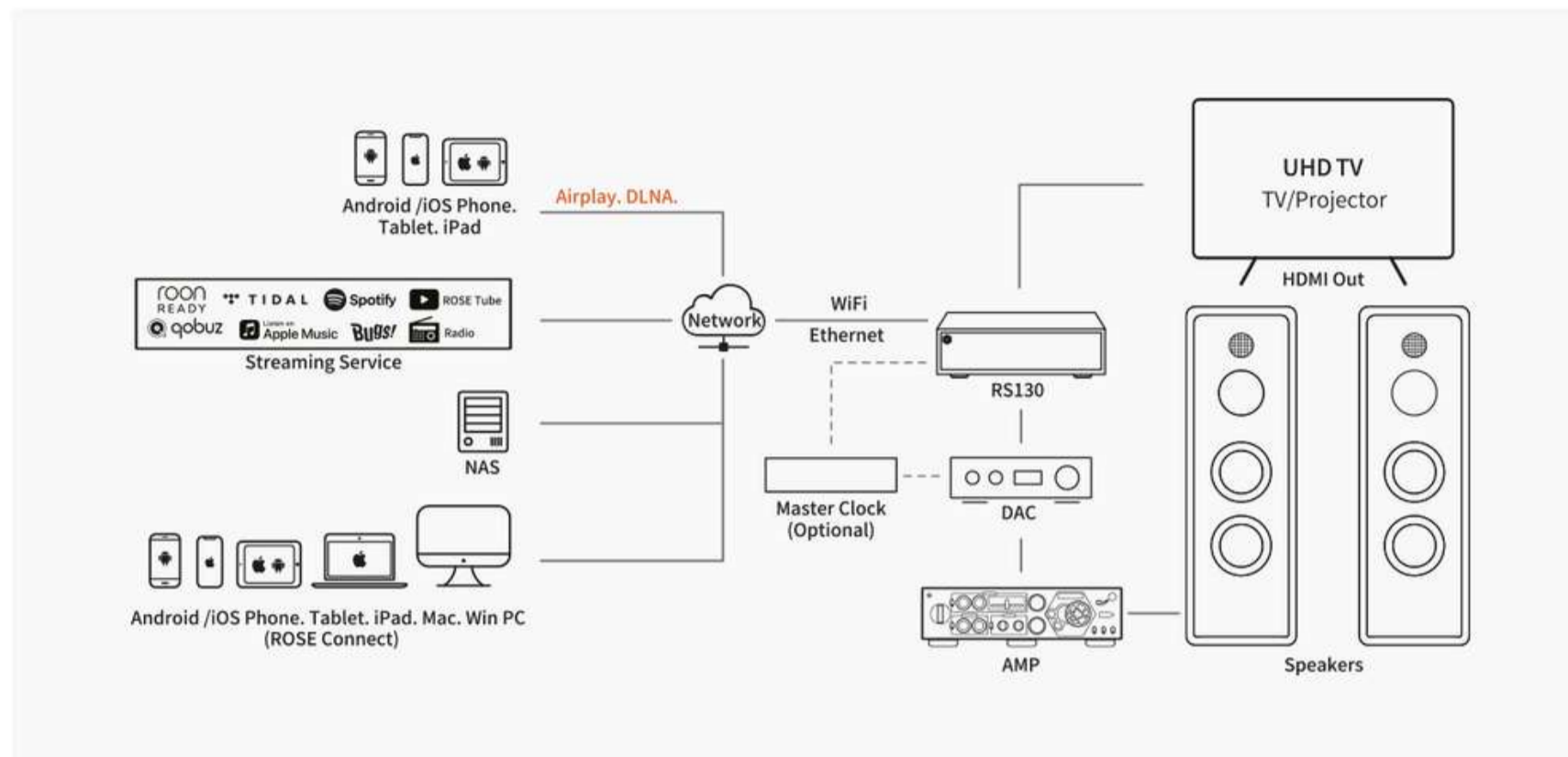
Innovative ROSE OS system

HiFi ROSE's own OS system provides an innovative listening environment.
In addition to playing and streaming ultra-high-quality music, it offers a variety of services
including 4K high-definition video playback, music-oriented YouTube listening, Pod casts,
various radio broadcasts around the world, CD playback and ripping.

Music

Play music and video files on a local storage device (USB / SSD). Also, you can build your home network library with a NAS connection. It is possible to categorize your music with numerous ways.

Video / Plays Ultra HD 4K Video

You can enjoy Ultra HD 4K video or Streaming video files on a large display from a connected storage device (USB, external hard drive, SSD, etc.) via HDMI connection. Now, you can get the vivid experience of an opera house at home.

CD Ripping / Play

By connecting an external CD-Rom Drive via USB, spontaneous CD playback is possible. You can extract music files stored on a CD and save them to SSD, USB.

ROSE Radio

Listen to various Internet radio channels from around the world. Register and listen to your favorite channel. It also offers Shazam, so that you can search for good songs on the radio right away.

RoseTube

Enjoy Endless Play of YouTube high-definition videos.

Streaming Service

You can play high-quality sound sources from various streaming services. Easily integrate and play all existing features, such as music files, Tidal, Qobuz and Apple Music in one playlist.

Roon Ready

RS130 is Roon-Ready device. It supports automatic network discovery, stable library operation, and multi-channel playback of high-quality sound sources.

Hi-Res Audio

HiFi ROSE devices are certified with a 'High-Resolution Audio' license from the JAS (Japan Audio Society).

Spotify Connect

Spotify Connect allows you to play and wirelessly control Spotify music on your ROSE OS over a network. With the Spotify Connect function, you can enjoy a variety of music with HiFi sound quality on your ROSE device.

MQA

RS130 includes MQA technology, which enables you to play back MQA audio files and streams, delivering the sound of the original master recording.

High-Precision OCXO

By adopting high-precision OCXO, the precision of digital output is increased and a more accurate clock signal is provided. OCXO is the most accurate and stable in-use clock to date, and is not affected by temperature changes. Conventional crystals have changes in vibration due to temperature, which can cause jitters in the audio signal. However, the OCXO always maintains a constant temperature, suppressing jitter to produce a stable and precise clock.
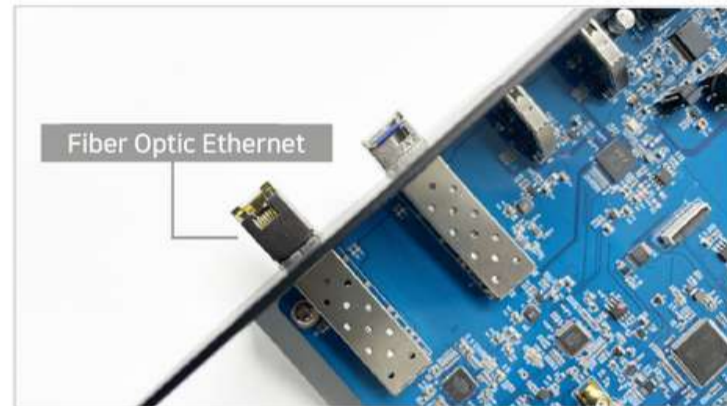
Fiber Optic Ethernet

The Fiber Optic Ethernet completely isolates network digital noise. The Fiber Optic Ethernet is supported to block physical noise sources including various network equipment.

Fiber Optic USB

The adopted optical USB completely blocks digital noise transmitted from the storage device.
By applying the optical conversion function, only pure data is taken from the storage device and driving noise is completely separated. When connected to a DAC, only pure sound source data is transmitted to the DAC, and all noise that may be induced from the transport to the DAC is fundamentally blocked.
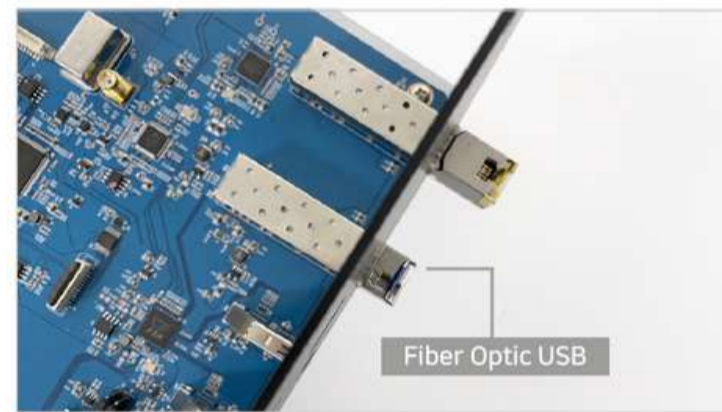
Applied SSD for Music Caching

The built-in SSD caches music files to ensure stable playback through the elimination of vibration and noise effects that occur when playing music from a HDD connected to a USB flash drive. It also minimizes delay errors that can occur during network streaming.
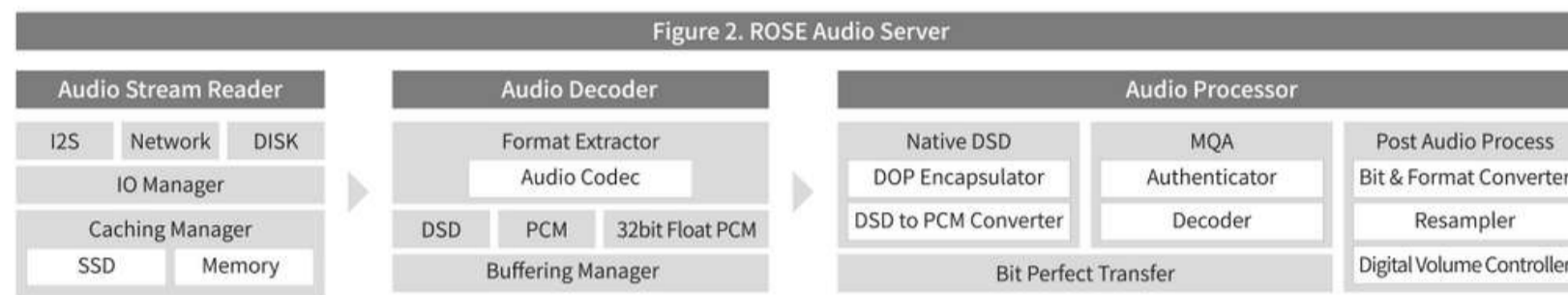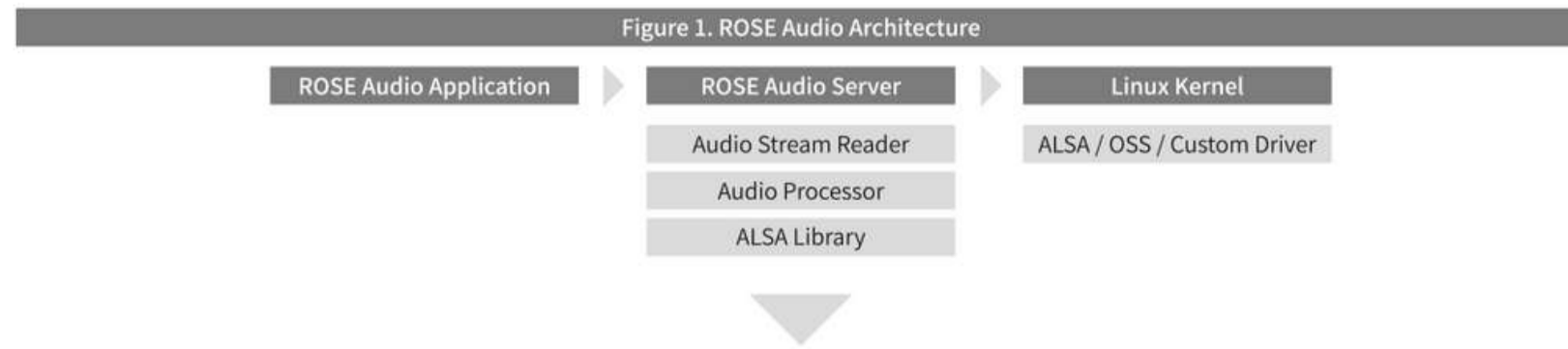
External Master Clock Input

The audio source requires a master clock input that outputs audio data synchronized with the master clock. Applying this method eliminates jitter in the S/PDIF, AES/EBU, and I2S Out connections from the audio source to the DAC, and supports perfect synchronization between devices based on the usage environment.

Rose Audio Engine

HiFi ROSE can deliver pure audio data to DAC without loss by using RoseAudioServer, developed by ROSE, and realizes advanced high fidelity audio service by using various signal processing technologies.

Figure 1. ROSE Audio Architecture

ROSE Audio Application	ROSE Audio Server	Linux Kernel
	Audio Stream Reader	ALSA / OSS / Custom Driver
	Audio Processor	
	ALSA Library	

Figure 2. ROSE Audio Server

Audio Stream Reader	Audio Decoder	Audio Processor		
I2S / Network / DISK	Format Extractor	Native DSD	MQA	Post Audio Process
IO Manager	Audio Codec	DOP Encapsulator	Authenticator	Bit & Format Converter
Caching Manager	DSD / PCM / 32bit Float PCM	DSD to PCM Converter	Decoder	Resampler
SSD / Memory	Buffering Manager	Bit Perfect Transfer		Digital Volume Controller

Audio stream reader

Audio stream reader uses caching technology developed by HiFi ROSE to process digital input signals using system interrupt, network jitter, and coarse clock without distortion.

Audio Decoder

Audio decoder can process various types of audio sources and codecs to extract DSD and PCM data, and in the case of a sound source using lossy codec, it decodes to 32bit float PCM to minimize distortion.

Audio Process

Audio process supports bit-perfect transmission, and packages and delivers audio data in a transmission format optimized for the connected DAC. It can handle full MQA decoding and native DSD, and provides an advanced hi-fi audio environment using various post-process modules developed by HiFi ROSE.

ROSE Connect Application

It includes a Dedicated Remote Control Application that allows users to conveniently control and smartly manage ROSE devices.
The remote control application works on various platforms including iPhone, iPad, Android phone, and PC.

Download on the App Store   GET IT ON Google Play