

S.M.S.L D1

SMSL D1 Hi-Res Audio DAC User Manual

Model: D1

1. INTRODUCTION

Thank you for purchasing the SMSL D1 Hi-Res Audio DAC. This manual provides detailed instructions for setting up, operating, and maintaining your device to ensure optimal performance and longevity. The SMSL D1 is designed to deliver a powerful and natural sound experience, equipped with the high-performance ROHM BD34352EKV DAC chip.

2. PRODUCT OVERVIEW

The SMSL D1 is a compact, audiophile-grade Digital-to-Analog Converter featuring a robust anodized CNC aluminum alloy unibody chassis. It is engineered for high-resolution audio playback, supporting various input options and high sampling rates.

Key Features:

- Equipped with ROHM's new high-performance DAC chip BD34352EKV for powerful and natural sound reproduction.
- Supports XMOS XU-316 firmware, enabling USB, optical, and coaxial multi-input options.
- Supports up to DSD512 and PCM 32-bit/768kHz sampling rates.
- Compatible with Windows, macOS, and Linux systems (Windows requires a driver).
- Features touch-control buttons for intuitive operation.
- Compact design with audiophile-grade components for high performance and exceptional sound quality.
- Includes a USB-A to C data cable for direct computer connection (macOS/Linux driver-free).
- Built-in power filtering system for optimal performance via USB power.
- Achieves ultra-high specifications with THD+N 0.00038% and SNR 126dB.

Product Views:



Figure 2.1: Front view of the SMSL D1 DAC, showcasing its minimalist design and touch controls.



Figure 2.2: Rear view of the SMSL D1 DAC, showing RCA outputs, coaxial input, optical input, and dual USB ports for power and data.

There is a protective film on the front panel. If not needed, the protective film can be removed.

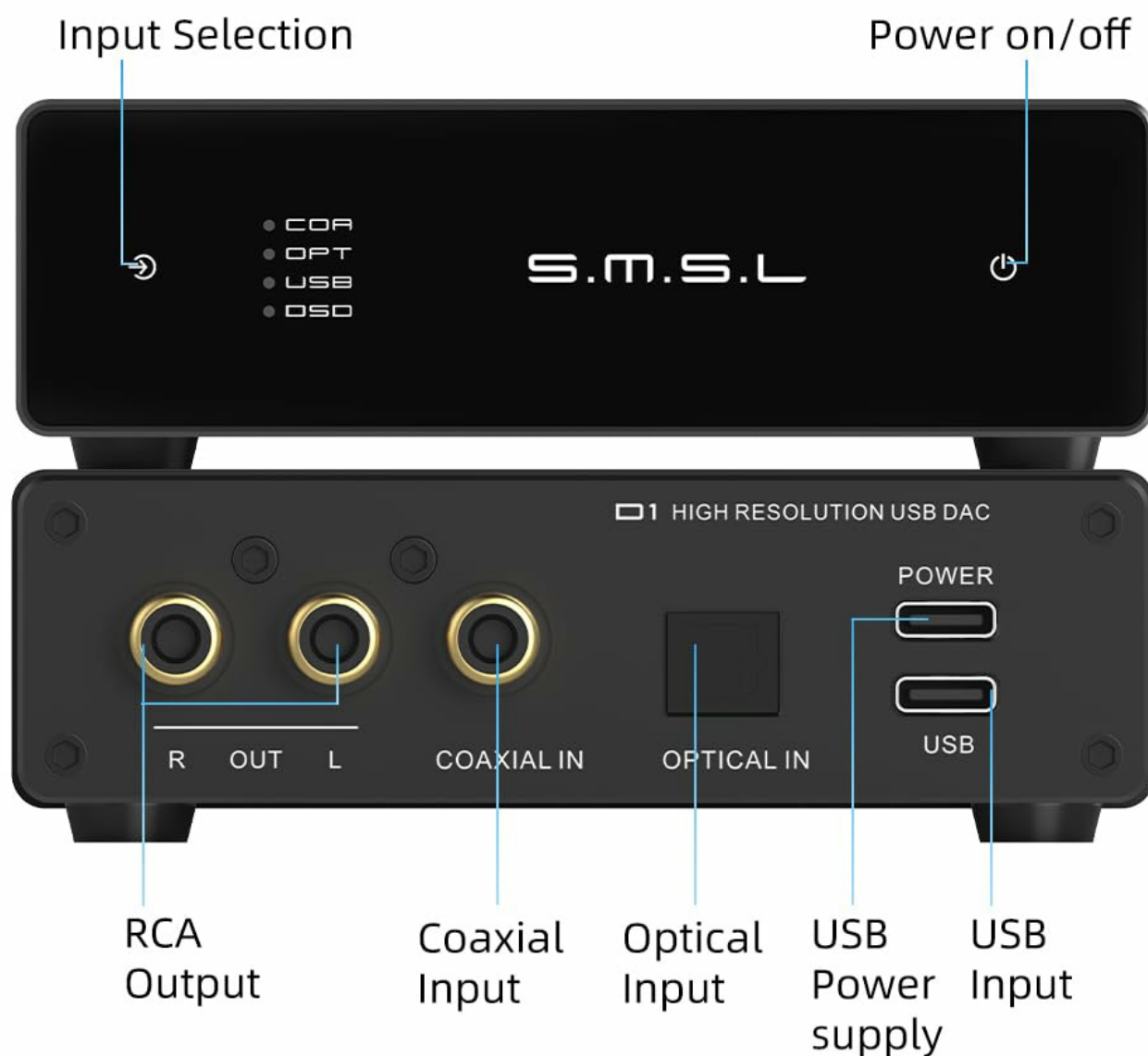


Figure 2.3: Labeled diagram of the SMSL D1 DAC, highlighting input selection, power on/off, RCA output, coaxial input, optical input, USB power supply, and USB input.

ROHM's new high-performance DAC chip

BD34352EKV

More powerful, More natural sound

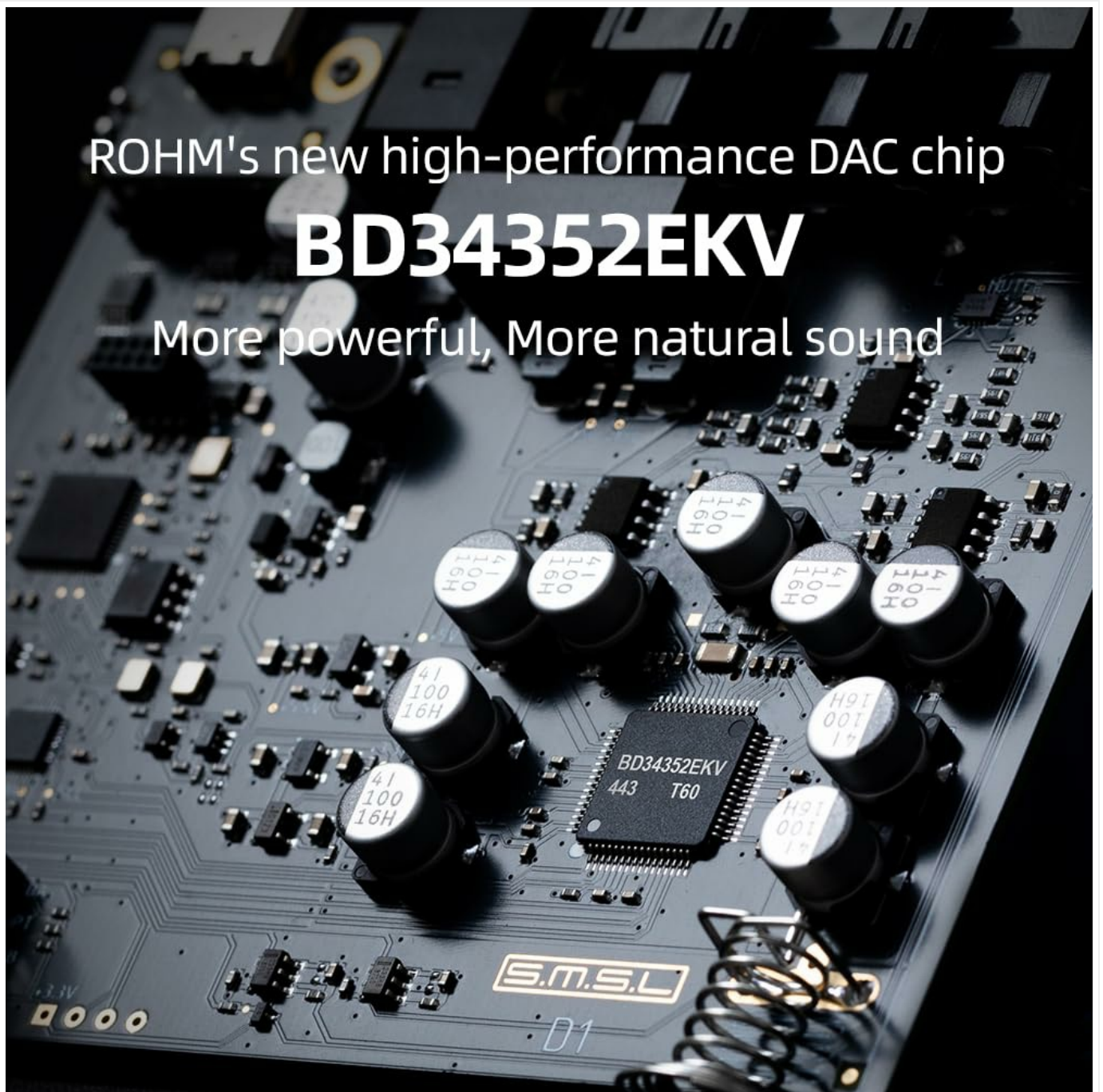
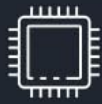


Figure 2.4: Close-up view of the internal ROHM BD34352EKV DAC chip, central to the D1's high-performance audio processing.



Figure 2.5: Diagram illustrating various input sources (phone, tablet, PC, TV, DVD) connecting to the SMSL D1 DAC, and outputs connecting to a headphone amplifier, amplifier, or active speakers.



**ROHM
BD34352EKV**



**Optical /coaxial
Input**



**Touch control
buttons**



**Dual USB-C ports for
input and
power supply**



**Miniature footprint
sculpted beauty**



**Audiophile-grade
components**



**RCA
output**



**Tempered Elegance
Engineered Clarity**

Figure 2.6: Visual summary of key features including ROHM BD34352EKV chip, optical/coaxial input, touch control buttons, dual USB-C ports, miniature footprint, audiophile-grade components, RCA output, and tempered elegance.

3. WHAT'S IN THE BOX?

Upon opening the package, please verify that all items listed below are present and in good condition:

- SMSL D1 DAC Unit
- USB-C Cable
- User Manual (this document)

What's in the Box?



SMSL D1 DAC



Manual



USB-C cable

Figure 3.1: Contents of the SMSL D1 package, including the DAC unit, user manual, and USB-C cable.

4. SETUP INSTRUCTIONS

Follow these steps to set up your SMSL D1 DAC:

1. **Connect Audio Output:** Connect the RCA output jacks (R and L) on the rear of the D1 DAC to your amplifier, headphone amplifier, or active speakers using appropriate RCA cables.
2. **Connect Audio Input:** Choose your desired input source:
 - **USB Input:** Connect your computer (PC, Mac, Linux), phone, or tablet to the USB input port on the D1 using the provided USB-A to C cable. For Windows systems, a driver may be required (refer to SMSL's official website for the latest driver). macOS and Linux systems are typically driver-free.
 - **Optical Input:** Connect an optical cable from your source device (e.g., TV, CD player) to the Optical IN port on the D1.
 - **Coaxial Input:** Connect a coaxial cable from your source device to the Coaxial IN port on the D1.

3. **Power Connection:** The D1 DAC is primarily powered via the USB input. Ensure your USB source provides sufficient power (5V DC). The built-in power filtering system optimizes performance when powered solely via the USB port.
4. **Initial Power On:** Once all connections are secure, press the power button on the front panel to turn on the device.

Your browser does not support the video tag.

Video 4.1: An operational video demonstrating the connection of RCA outputs and various digital inputs (coaxial, optical, USB) to the SMSL D1 DAC. This video also shows the touch control functionality.

5. OPERATING INSTRUCTIONS

The SMSL D1 features intuitive touch controls on its front panel:

- **Power On/Off:** Lightly touch the power symbol () on the right side of the front panel to turn the unit on or off.
- **Input Selection:** Lightly touch the input selection symbol () on the left side of the front panel to cycle through available inputs: COAXIAL (COA), OPTICAL (OPT), USB, and DSD (via USB). The active input will be indicated by an illuminated LED.

Ensure your source device is playing audio and your connected amplifier/speakers are powered on and set to the correct input. The D1 DAC does not have a built-in volume control; volume must be adjusted on your connected amplifier or source device.

6. MAINTENANCE

To ensure the longevity and optimal performance of your SMSL D1 DAC, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the finish or internal components.
- **Placement:** Place the unit on a stable, flat surface away from direct sunlight, heat sources, and excessive moisture. Ensure adequate ventilation around the device.
- **Handling:** Handle the unit with care. Avoid dropping or subjecting it to strong impacts.
- **Protective Film:** A protective film may be present on the front panel upon unboxing. This can be carefully removed if desired.

7. TROUBLESHOOTING

If you encounter issues with your SMSL D1 DAC, please refer to the following common problems and solutions:

Problem	Possible Cause / Solution
No sound output.	◦ Ensure the D1 DAC is powered on. ◦ Verify that the correct input source is selected on the D1 DAC. ◦ Check all cable connections (input and output) are secure. ◦ Confirm your amplifier/speakers are powered on and set to the correct input. ◦ Adjust the volume on your amplifier or source device. ◦ For Windows USB connection, ensure the correct driver is installed.

Problem	Possible Cause / Solution
Intermittent sound or static.	◦ Check for loose cable connections. ◦ Ensure cables are not damaged. ◦ Try a different USB port or power source if using USB power. ◦ Ensure no strong electromagnetic interference sources are nearby.
Touch controls are unresponsive or laggy.	◦ Ensure your finger is making proper contact with the touch area. ◦ Clean the touch panel surface with a soft, dry cloth. ◦ Restart the device by unplugging and re-plugging the power.

If the problem persists after trying these solutions, please contact SMSL customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	9.45 x 7.4 x 1.64 inches; 8 ounces
Manufacturer	S.M.S.L
Brand	S.M.S.L
Minimum Supply Voltage	5 Volts (DC)
Mounting Type	Coaxial, Plug Mount
Number of Pins	7
Interface Type	Coaxial, USB
DAC Chip	ROHM BD34352EKV
Max Sampling Rate (PCM)	32-bit/768kHz
Max Sampling Rate (DSD)	DSD512
THD+N	0.00038%
SNR	126dB

9. WARRANTY AND SUPPORT

The SMSL D1 Hi-Res Audio DAC comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official S.M.S.L website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or service inquiries, please contact S.M.S.L customer support through their official channels. Keep your purchase receipt and product serial number handy when contacting support.

S.M.S.L Official Store: [Visit Store](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I turn off the S.M.S.L D1 DAC, and does a red LED on the DSD indicator mean the unit is off?

Based on the S.M.S.L D1 manual, a red LED light on the DSD indicator does not mean the unit is off. Instead, it indicates that the "DSD (via USB)" input is currently selected as...

[Read full answer](#)

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