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AOSHIDA DO100PRO

SMSL DO100 PRO HiFi Balanced DAC

User Manual

Model: DO100PRO | Brand: AOSHIDA

1. INTRODUCTION

The SMSL DO100 PRO is a high-performance Digital-to-Analog Converter (DAC) designed for audiophiles seeking exceptional sound quality and versatile connectivity. It features dual ES9039Q2M DAC chips and an XMOS XU316 processor, supporting high-resolution audio formats up to 768kHz/DSD512. With comprehensive input options including USB, optical, coaxial, Bluetooth 5.1, and HDMI ARC, and both RCA and XLR outputs, the DO100 PRO integrates seamlessly into various audio systems, from home theaters to gaming setups.



Image: Front and rear view of the SMSL DO100 PRO, showcasing its display, control knob, and various input/output ports.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- 1 x SMSL DO100 Pro DAC Unit
- 1 x Bluetooth Antenna
- 1 x USB Cable
- 1 x AC Power Cable
- 1 x Remote Control
- 1 x User Manual
- 1 x SMSL Card (likely warranty/registration card)



Bluetooth 5.1

Qualcomm's latest Bluetooth 5.1 chip supports LDAC 24bit/96kHz, APTX/HD, SBC, AAC.

LDAC

APTX-HD

APTX

SBC

AAC

* 接続中は、接続距離を7メートルとし、遮蔽物のない状態にすることをおすすめします

Image: A visual representation of the SMSL DO100 PRO unit along with its included accessories: AC power cable, USB cable, remote control, Bluetooth antenna, user manual, and warranty card.

3. KEY FEATURES

- **Dual ES9039Q2M DAC Chips:** Equipped with two ES9039Q2M decoding chips for superior audio performance,

delivering clear and authentic sound.

- **XMOS XU316 Processor:** Features the XMOS XU316 chip, supporting USB input up to DSD512 and PCM 32bit/768kHz.
- **Multipurpose Audio DAC:** Offers a wide array of inputs including USB, optical, Bluetooth, coaxial, and HDMI (ARC), with RCA and XLR outputs.
- **8X MQA Decoding:** USB, optical, and coaxial inputs support full MQA decoding, allowing for high-fidelity audio playback close to original recordings.
- **HDMI ARC Function:** Enables high-quality audio transmission from compatible TV devices via HDMI ARC input.
- **Bluetooth 5.1 with LDAC:** Integrated QCC5125 Bluetooth 5.1 chip supports LDAC (24bit/96kHz), APTX/HD, SBC, and AAC for wireless audio streaming.
- **Two USB Modes:** Supports USB1.1 driver-free mode (ideal for PS5 and Switch game consoles) and USB2.0 mode (requires driver installation for PC).

S.M.S.L



DO100 PRO

HiFi Balanced MQA DAC



• 2x ES9039Q2M Chips

• Bluetooth 5.1

• DSD512 PCM32bit/768kHz

• HDMI ARC input

• XLR Balanced Output

• Full MQA Decoding

Image: An overview graphic highlighting key features such as dual ES9039Q2M chips, DSD512/PCM32bit/768kHz support, XLR balanced output, Bluetooth 5.1, HDMI ARC input, and full MQA decoding.

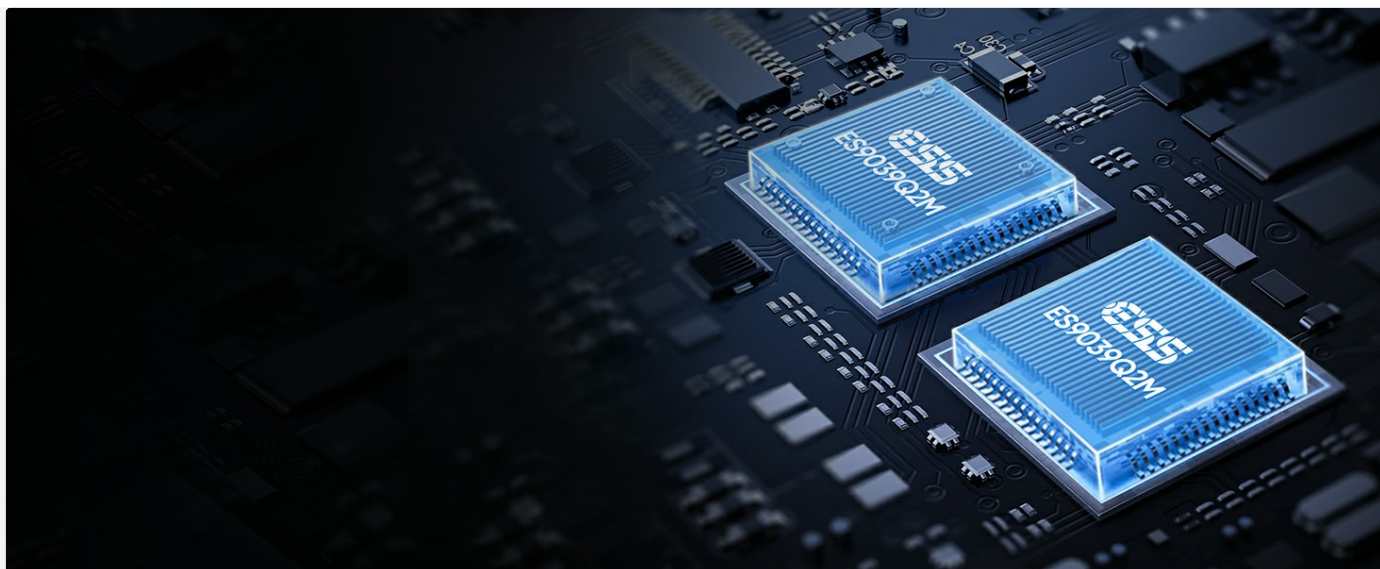


Image: Close-up rendering of the dual ESS ES9039Q2M DAC chips, emphasizing their role in high-fidelity audio processing.

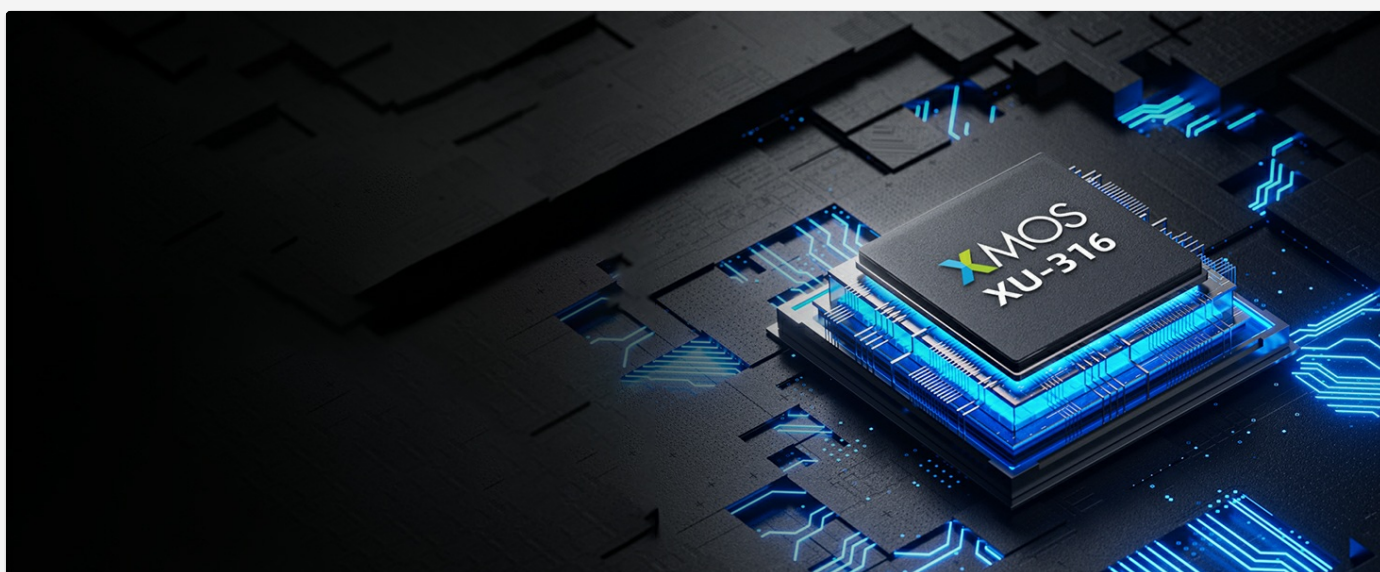


Image: Detailed rendering of the XMOS XU-316 processor chip, highlighting its capability for PCM 32bit/768kHz and DSD512 audio processing.

4. SETUP AND CONNECTIONS

4.1 Input/Output Overview

The DO100 PRO offers a comprehensive set of input and output options to connect to various audio sources and playback devices.

What Will You Get ?



Weight: 1.45kg



AC Power Cable



USB Cable



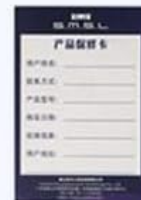
Remote Control



Bluetooth Antenna



User Manual



Warranty Card

Image: The rear panel of the S.M.S.L DO100 PRO, showing the layout of inputs (Optical, Coaxial, HDMI ARC, USB, Bluetooth antenna port) and outputs (RCA, XLR).

• Inputs:

- USB (Type-C): For connecting to PCs, PS5, Nintendo Switch.
- Optical (Toslink): For connecting to TVs, CD/DVD players.
- Coaxial (RCA): For connecting to TVs, CD/DVD players.
- HDMI (ARC): For connecting to compatible TVs for audio return channel.
- Bluetooth 5.1: For wireless connection to mobile phones, tablets, etc.

• Outputs:

- RCA (Single-ended): For connecting to amplifiers or active speakers.
- XLR (Balanced): For connecting to balanced amplifiers or active speakers, offering superior noise rejection.

4.2 USB Mode Switching

The DO100 PRO supports two USB modes for different applications:

- **USB1.1 Driver-Free Mode:** This mode is suitable for game consoles like PS5 and Nintendo Switch, offering plug-and-play convenience without the need for driver installation. It supports sample rates up to PCM 16bit/96kHz.
- **USB2.0 Mode:** This mode is designed for PC connections and requires driver installation for full functionality and higher sample rates (up to DSD512 and PCM 32bit/768kHz).

Important: When switching between USB1.1 and USB2.0 modes, you must restart the DO100 PRO unit for the changes to take effect and for the device to correctly identify the audio source.



HDMI (ARC) Audio Return

Supporting HDM(ARC) audio return function, just one HDMI cable connects the DO100PRO and your TV.

Connection Method:

TV HDMI ARC interface-DO100 PRO-Active speaker

TV HDMI ARC interface-DO100 PRO-Amplifier-Passive speaker

***Need to confirm that the HDMI interface of the TV is an ARC/eARC interface and supports the ARC function.**

TV出力のデジタルフォーマットはPCM

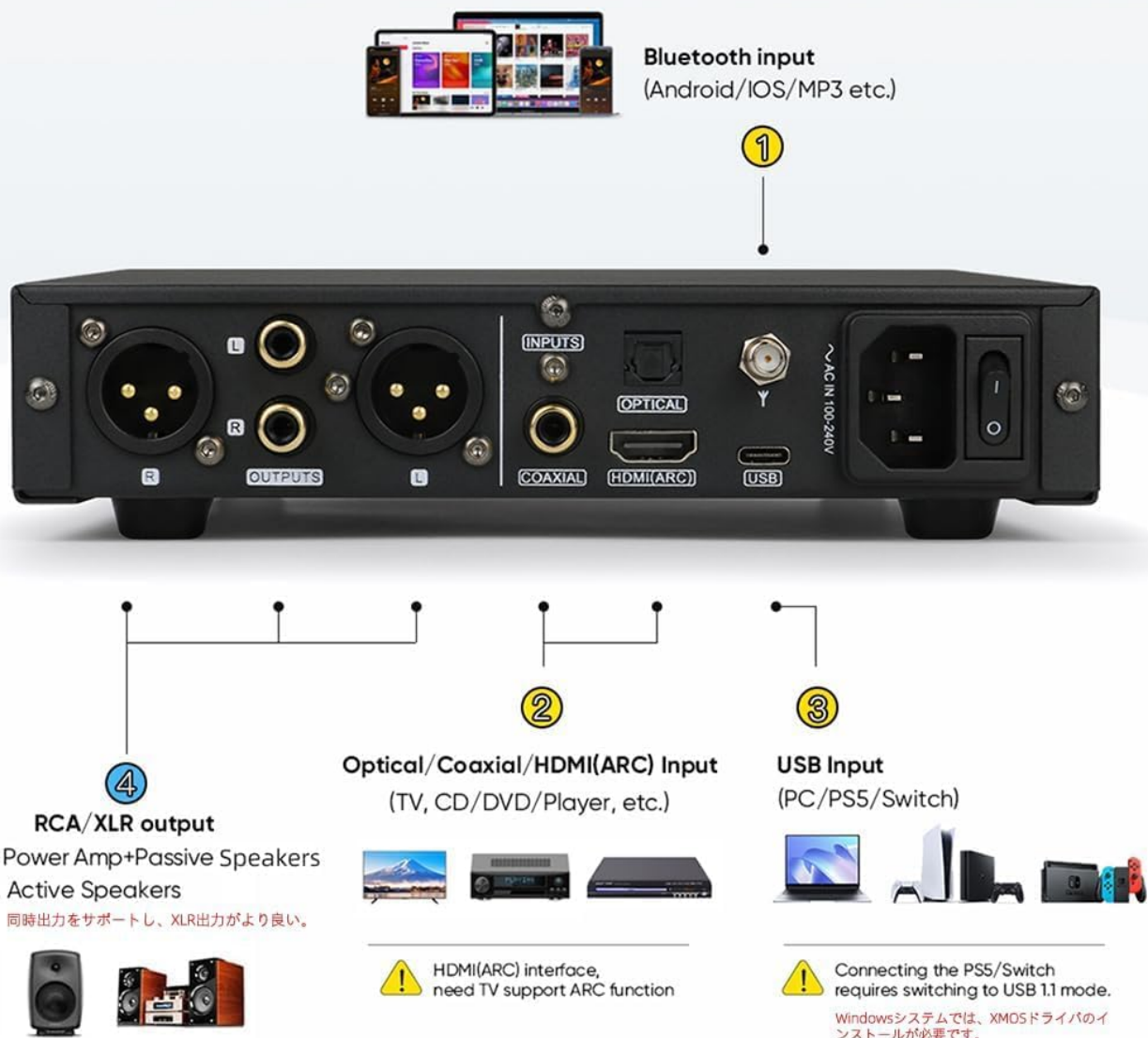
Image: Diagram illustrating the USB1.1 and USB2.0 modes, showing connections to PS5, Nintendo Switch, and PC, along with their respective connection methods.

4.3 HDMI ARC Connection

The HDMI ARC (Audio Return Channel) input allows you to transmit audio from your compatible TV to the DO100 PRO using a single HDMI cable. This simplifies your setup and ensures high-quality audio from your TV's internal sources or

connected devices.

- Ensure your TV has an HDMI port labeled "ARC" or "eARC".
- Connect a standard HDMI cable from your TV's ARC port to the HDMI (ARC) input on the DO100 PRO.
- On your TV, navigate to the audio settings and ensure the audio output format is set to **PCM**. The DO100 PRO does not support other formats like Dolby Digital or DTS via ARC.
- Confirm that your TV's audio output mode is correctly set to use the HDMI ARC function.
- The DO100 PRO's HDMI ARC input is for audio only and does not support video output or connection to TV set-top boxes.



光入力や同軸入力を使用する際は、メニュー内のDPLLを最大に設定して、オーディオ信号をより安定させてください。

Image: A visual guide demonstrating how to connect the SMSL DO100 PRO to a TV using the HDMI ARC function, showing the DAC unit positioned below a television.

Connect to an ARC compatible TV via HDMI

Use a commercially available HDMI cable to connect an ARC compatible TV to this product. As shown in the illustration below :

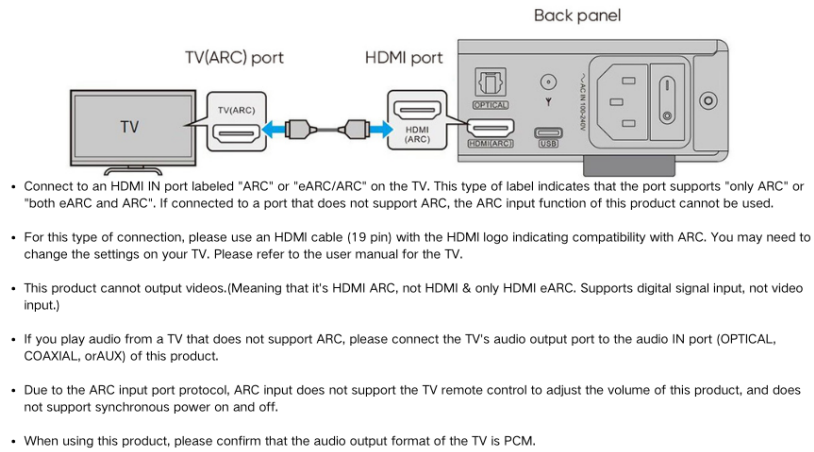


Image: A detailed diagram illustrating the connection of a TV's HDMI (ARC) port to the DO100 PRO's HDMI (ARC) input, with important notes regarding TV settings and supported audio formats.

4.4 Bluetooth Connection

The DO100 PRO features Bluetooth 5.1 for high-quality wireless audio streaming from your mobile devices.

- Attach the included Bluetooth antenna to the designated port on the rear of the DO100 PRO.
- Power on the DO100 PRO and select Bluetooth as the input source using the control knob or remote.
- On your mobile device (phone, tablet, etc.), enable Bluetooth and search for available devices.
- Select "SMSL DO100 PRO" from the list to pair.
- Once paired, audio from your device will be streamed to the DO100 PRO.
- The DO100 PRO supports LDAC 24bit/96kHz, APTX/HD, SBC, and AAC codecs for optimal sound quality.



Image: A smartphone connected via Bluetooth to the SMSL DO100 PRO, illustrating the wireless audio streaming capability.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** Use the power switch on the rear panel to turn the unit on or off.
- **Volume Control:** Rotate the large knob on the front panel to adjust the output volume.
- **Input Selection:** Press the center of the control knob to enter the menu. Rotate the knob to cycle through available inputs (USB, Bluetooth, Coaxial, Optical, HDMI ARC). Press the knob again to confirm selection.

5.2 Menu Navigation

Pressing the control knob on the front panel allows you to access and adjust various settings:

1. **Input Selection:** The first menu option allows you to select the desired audio input source.
2. **PCM Filter:** The DO100 PRO offers 7 different PCM filter settings. Experiment with these to find the sound profile

that best suits your preferences and audio content.

- 3. **DPLL Settings:** Digital Phase-Locked Loop (DPLL) settings are used to manage clock jitter. There are 9 DPLL levels. The default setting (usually 1) is often sufficient for most setups. Adjusting this may be necessary in environments with significant signal interference.
- 4. **Brightness Control:** Adjust the brightness of the front display screen to your comfort level.

To navigate the menu, press the knob to enter, rotate to change values or options, and press again to confirm or move to the next setting. If no action is taken, the menu will typically time out and return to the main display.

6. MAINTENANCE

To ensure the longevity and optimal performance of your SMSL DO100 PRO, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Avoid using liquid cleaners, aerosols, or abrasive materials, as they may 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 unit to prevent overheating.
- **Power:** Disconnect the power cable from the wall outlet if the unit will not be used for an extended period.
- **Handling:** Handle the unit with care. Avoid dropping or subjecting it to strong impacts.

7. TROUBLESHOOTING

If you encounter any issues with your SMSL DO100 PRO, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No sound output	Incorrect input selected; Cables not properly connected; Amplifier/speakers off or muted; Incorrect USB mode.	Verify the correct input is selected on the DO100 PRO. Check all audio cables (RCA/XLR) are securely connected. Ensure your amplifier and speakers are powered on and not muted. If using USB, confirm the correct USB mode (1.1 or 2.0) is selected and restart the DO100 PRO if changed.
Distorted or noisy sound	Poor cable connection; Ground loop; Source audio quality; DPLL setting.	Check all cable connections for looseness. Try different cables. Ensure proper grounding of all audio components. Use high-quality audio files. Adjust DPLL settings in the menu.
HDMI ARC not working	TV ARC function not enabled; TV audio output not set to PCM; Incompatible TV port.	Confirm your TV's HDMI port is ARC/eARC compatible and the function is enabled in TV settings. Set TV audio output format to PCM. Refer to your TV's manual for specific ARC setup instructions.
Bluetooth connection issues	Device not in pairing mode; Interference; Distance.	Ensure the DO100 PRO is set to Bluetooth input and in pairing mode. Move closer to the unit. Reduce interference from other wireless devices. Try re-pairing the device.

Problem	Possible Cause	Solution
Random popping sound (as reported by some users)	Potential unit specific issue; Signal instability.	While rare, if this occurs, try restarting the unit. Ensure all connections are secure. If the issue persists, contact customer support for further assistance.

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

8. SPECIFICATIONS

Feature	Detail
Brand	AOSHIDA (Manufacturer: SMSL)
Model Number	DO100PRO
DAC Chips	Dual ES9039Q2M
USB Processor	XMOS XU316
USB Compatibility	DSD512, PCM 32bit/768kHz
MQA Support	Full MQA decoding via USB, Optical, Coaxial
Bluetooth Version	5.1 (QCC5125 chip)
Bluetooth Codecs	LDAC (24bit/96kHz), APTX/HD, SBC, AAC
Inputs	USB (Type-C), Optical, Coaxial, HDMI (ARC), Bluetooth
Outputs	RCA (Single-ended), XLR (Balanced)
Material	Full aluminum, CNC machining
Product Dimensions	7.44"L x 7.32"W (approx. 189mm x 186mm)
Item Weight	3.19 pounds (approx. 1.45 kg)
Mounting Type	Desk Mount
Country of Origin	China



Bluetooth 5.1

Qualcomm's latest Bluetooth 5.1 chip supports LDAC 24bit/96kHz, APTX/HD, SBC, AAC.

LDAC

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SBC

AAC

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Image: The SMSL DO100 PRO unit with its dimensions (189mm length, 186mm width, 45mm height) and weight (1.45kg) indicated.

9. WARRANTY AND SUPPORT

The SMSL DO100 PRO comes with a warranty card included in the packaging. Please refer to the card for specific warranty terms and conditions provided by AOSHIDA or SMSL.

For technical support, troubleshooting beyond this manual, or warranty claims, please contact AOSHIDA customer service through their official channels. You can often find contact information on the product packaging, the included SMSL card, or the AOSHIDA brand store on Amazon.

For more information and updates, you may visit the AOSHIDA Store: [AOSHIDA Store on Amazon](#).

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.

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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

Open the live page

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