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> SMSL PO100 PRO MQA DDC User Manual

AOSHIDA PO100 PRO

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XMOS XU316 Digital to Analog Audio Converter

INTRODUCTION

The SMSL PO100 PRO is a compact and high-performance Digital-to-Digital Converter (DDC) designed to enhance your audio experience. Featuring the advanced XMOS XU316 chip, it supports high-resolution audio formats including PCM 32bit/768kHz and native DSD/DOP64. This device acts as a bridge between your digital audio sources and your DAC or active speakers, providing versatile connectivity options such as I2S, optical, and coaxial outputs. Its portable design makes it ideal for various setups, from desktop audio to gaming consoles.



Figure 1: SMSL PO100 PRO Digital to Analog Audio Converter.

WHAT'S IN THE BOX

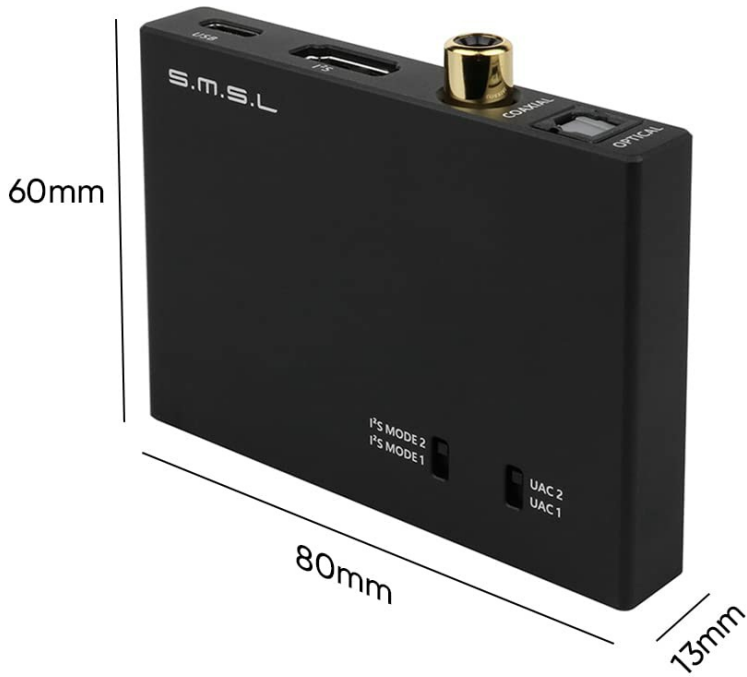
Upon opening the package, please verify that all listed items are present and in good condition:

- 1x SMSL PO100 PRO Unit
- 1x Type-C to A USB cable
- 1x Type-C to C USB cable
- 1x User Manual
- 1x Warranty Card

Your browser does not support the video tag.

Video 1: Unboxing the SMSL PO100 PRO, showing the contents of the package including the main unit, cables, and documentation.

Packing List



1



Packing box

2



User Manual

3



TYPE-C to C cable

4



TYPE-C to A cable

Figure 2: Visual representation of the S.M.S.L PO100 PRO packing list.

PRODUCT FEATURES

XMOS XU316 Chip

The PO100 PRO integrates the advanced XMOS XU316 chip, enabling asynchronous USB transmission. This powerful chip supports high-resolution audio playback up to PCM 32bit/768kHz and native DSD/DOP64, ensuring pristine audio quality.

XMOS XU316 Chip

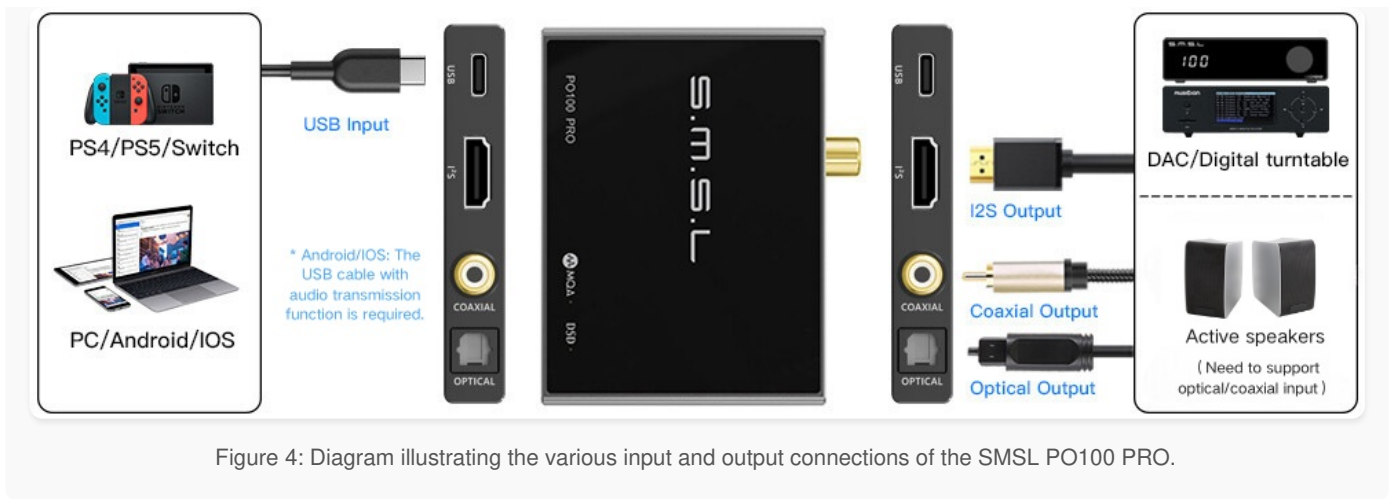
Adopting XMOS XU316 chip solution, sampling rate up to DSD512 PCM32bit/768kHz.



Figure 3: Close-up view of the XMOS XU316 chip, highlighting its role in high-resolution audio processing.

Versatile Input & Output Options

The device features a Type-C USB input for connecting to various sources. For output, it provides I2S, optical, and coaxial digital interfaces. The PO100 PRO includes two switches for UAC mode and I2S mode selection, allowing compatibility with a wide range of audio equipment. The I2S output supports LVDS level up to 32bit/768kHz.



MQA Decoding Support

The PO100 PRO supports MQA (Master Quality Authenticated) decoding without requiring additional software. You can use compatible music players that support ASIO or WASAPI audio output for MQA playback. For optimal MQA audio output, it is recommended to set your computer's volume to maximum.



Support MQA Decoding



SMSL PO100 Pro USB input supports MQA decoding, and the MQA sampling rate is 44.1~384kHz.

Figure 5: The SMSL PO100 PRO displaying its MQA decoding capability.

Game Console Compatibility (DOP64)

This device is compatible with gaming consoles like PS5. By selecting DOP output in your playback software and connecting via optical or coaxial, you can utilize the DOP64 feature for enhanced audio from your console.

Support Game Console Connection

UAC1/2 mode switching

Switch

PS4/PS5

UAC1 mode can connect Sony PS5, Nintendo Switch, etc.



Figure 6: SMSL PO100 PRO connected to a PS5 and Nintendo Switch, demonstrating game console compatibility.

Mini and Portable Design

The PO100 PRO boasts a compact and lightweight design, making it highly portable. It can be easily carried in bags and backpacks, perfect for on-the-go audio enthusiasts. Its small footprint ensures it fits seamlessly into any setup.

Mini And Portable

PO100 Pro weighs only 0.75g, which is a very compact USB digital interface.



Figure 7: The compact size of the SMSL PO100 PRO, easily held in one hand.

SETUP GUIDE

1. Connect Power and Source

Connect the SMSL PO100 PRO to your audio source (e.g., PC, PS5, phone) using the provided Type-C USB cable. The device is USB powered, so no external power adapter is needed.

2. Select UAC Mode

The PO100 PRO has a UAC mode switch (UAC1/UAC2). Before use, adjust this switch to the correct USB UAC mode compatible with your source device. UAC1 mode is typically used for devices like Sony PS5 and Nintendo Switch.

Mode Switching

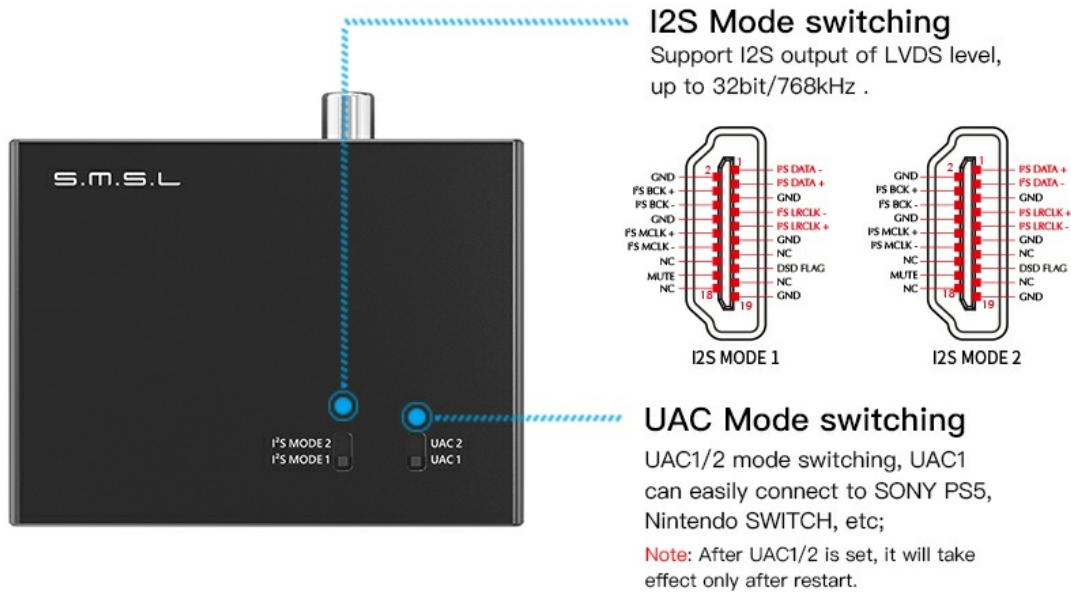


Figure 8: Location of UAC and I²S mode switches on the S.M.S.L PO100 PRO.

3. Connect to DAC/Amplifier

Connect the PO100 PRO to your DAC or active speakers using one of the digital output options: I²S, optical, or coaxial. Ensure the correct input is selected on your receiving device.

4. Select I²S Mode (if applicable)

If you are using the I²S output, adjust the I²S mode switch (I²S MODE 1/I²S MODE 2) to match the pin configuration of your DAC. Refer to your DAC's manual for the correct I²S pinout.

5. Driver Installation (Windows)

For Windows 7/8/8.1/10/11, a driver may be required for optimal performance. Drivers are typically available on the manufacturer's website. Mac OS X 10.6+, Linux, Android, and iOS devices are generally driverless.

OPERATING INSTRUCTIONS

1. General Playback

Once connected and modes are set, simply play audio from your source device. The PO100 PRO will convert the USB digital signal to the selected output format (I²S, optical, or coaxial) for your DAC or active speakers.

2. MQA Playback

For MQA audio, ensure your playback software supports ASIO or WASAPI output. Set the computer's volume to maximum for the best MQA experience, as the PO100 PRO handles the decoding.

3. Gaming Console Usage (PS5/Switch)

For PS5 or Nintendo Switch, ensure the UAC mode switch is set to UAC1. If using DOP64, select DOP output in your console's audio settings and connect via optical or coaxial to a compatible DAC.

MAINTENANCE

To ensure the longevity and optimal performance of your SMSL PO100 PRO, follow these maintenance guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid exposing the device to moisture or liquids.
- Do not attempt to disassemble or repair the device yourself, as this will void the warranty.

TROUBLESHOOTING

If you encounter any issues with your SMSL PO100 PRO, please refer to the following common troubleshooting steps:

- **No Sound Output:**
 - Ensure all cables are securely connected.
 - Verify the correct UAC mode is selected on the PO100 PRO.
 - Check that the correct input is selected on your DAC/amplifier.
 - Confirm that the source device's volume is not muted or too low.
 - If using Windows, ensure the necessary drivers are installed and the device is recognized.
- **Distorted Audio:**
 - Check the quality of your USB cable. Try a different cable if possible.
 - Ensure the I2S mode (if used) matches your DAC's pinout.
 - Reduce the volume on your source device if the distortion occurs at high levels.
- **Device Not Recognized:**
 - Try connecting to a different USB port on your source device.
 - Restart your source device.
 - Reinstall drivers if on Windows.

If the issue persists, please contact customer support for further assistance.

SPECIFICATIONS

Feature	Specification
Model	SMSL PO100 PRO
Input	USB (Asynchronization)
USB Specifications	UAC1, UAC2
USB Compatibility	Windows 7/8/8.1/10/11 (Needs Driver), Mac OSX10.6+, Linux (Driverless), Android, iOS, Sony PS5 (UAC1), Nintendo Switch (UAC1)
Output	I2S, COAXIAL, OPTICAL
THD + N	0.00008%(-141.7dB)
JITTER	75ps (typical)

Feature	Specification
Sampling Rate (I2S)	PCM 44.1 ~ 768kHz, DSD 2.8224 ~ 22.5792MHz
Sampling Rate (Optical/Coaxial)	PCM 44.1 ~ 192kHz, DSD DSD64 (DoP)
Bit Depth (I2S)	1bit, 16 ~ 32bit
Bit Depth (Optical/Coaxial)	1bit, 16 ~ 24bit
Power Supply	5V / 200mA
Size (WxHxD)	80x13x60mm
Product Dimensions	3.15 x 2.36 x 0.51 inches; 2.65 ounces
Item Model Number	PO100 PRO
Date First Available	November 10, 2022
Manufacturer	SMSL
Maximum Supply Voltage	5 Volts
Minimum Supply Voltage	4.5 Volts
Mounting Type	Cable Mount
Number of Pins	26

Figure 9: Detailed technical specifications of the SMSL PO100 PRO.

WARRANTY AND SUPPORT

The SMSL PO100 PRO comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or contact AOSHIDA Audio directly.

For technical support, troubleshooting assistance, or any inquiries regarding your device, please visit the official AOSHIDA Audio website or refer to the comprehensive user manual available in PDF format:

[Download User Manual \(PDF\)](#)

You may also contact AOSHIDA Audio-US, the seller, for direct support.