



Musician PHOENIX High Performance Digital Interface User Manual

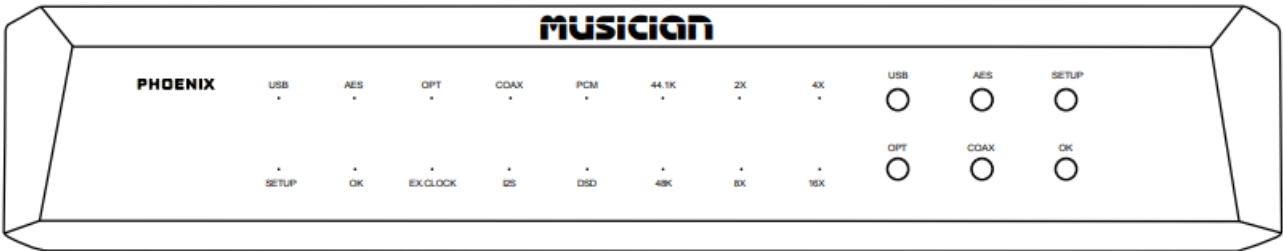
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Musician PHOENIX High Performance Digital Interface



Introduction

Thank you for choosing MUSICIAN products!

Guangzhou LEZHIJIA Technology Co.,Ltd.(MUSICIAN Audio) was formally established in 2020. The R & D team is formed by a group of enthusiasts with more than 20 years of audio research and development experience. It is committed to the following product: R2R discrete balanced decoders, balanced headphone amplifiers, balanced amplifiers, balanced pre-amplifiers, headphones, passive speakers, and other audio products.

Tips

- Do not cover newspapers, tablecloths, curtains, etc. on the machine, as this may prevent heat dissipation. If the temperature inside the machine is too high, it may cause a fire, damage the machine, or cause personal injury. When using Switches, knobs or cables, do not use excessive force.
- Only use the voltage specified by this machine. Using a voltage higher than the specified value is dangerous and may cause fire, damage to the unit, or personal injury.
- Do not attempt to modify or repair this unit by yourself. If you need any service, please contact the MUSICIAN after-sales team through the official website.
- If you plan not to use the machine for a long time, disconnect the power cord from the AC wall outlet. To strengthen the protection of this product, unplug the power cord from the wall outlet during lightning, or when no one is managing it, and when not using it for a long time. This will prevent the product from being damaged during lightning and power grid surges.

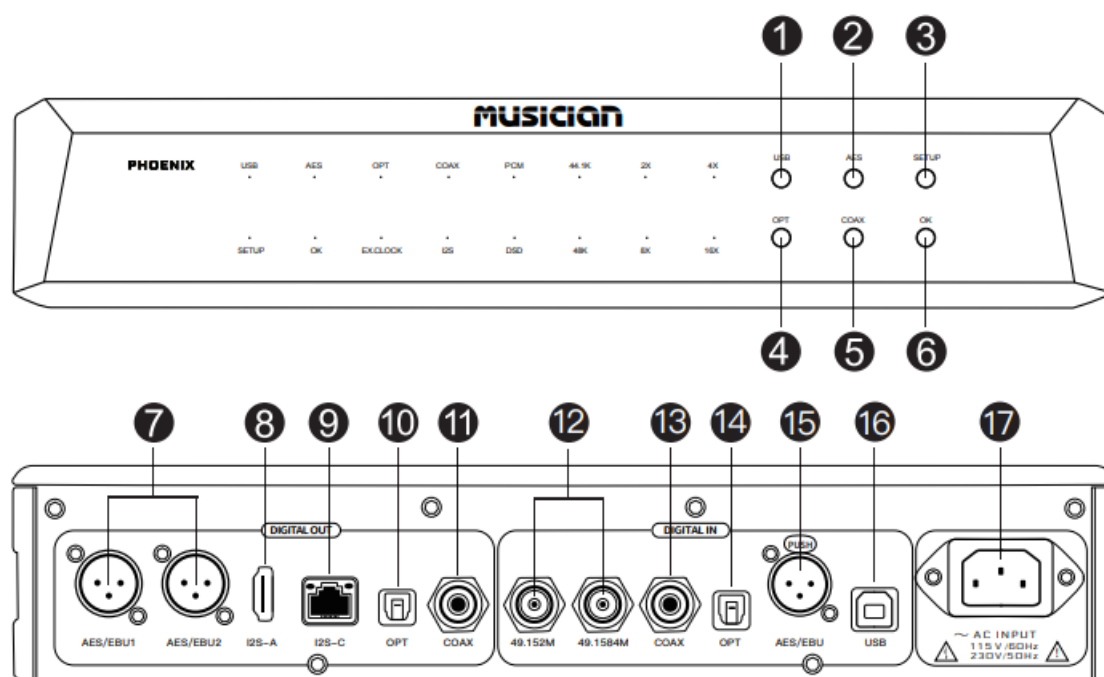
Product information

Technical Highlights Digital interface

- Proprietary FPGA DSP Processing Architecture
- FIFO Buffer and Reclock with Internal Crystal
- Precision Oven Controlled Crystal Oscillator OCXO
- O-type single crystal copper transformer
- Optical Isolated All Digital Input Interfaces
- Proprietary USB Audio Solution via STM32F446 Advanced AMR Based MCU
- Licensed Thesycon USB Driver For Windows Platform
- Driverless On Mac & Linux
- Dual AES/EBU Output Supported
- External Clocks Input Supported
- **DSD**
DSD64(DoP) on Coax/AES/Opt Input & Output
Up to DSD512 On USB Input & I²S Output
- **PCM**
24bits / 44.1, 48, 88.2, 96, 176.4, 192KHz On All Input & Output Up to 768KHz On USB Input & Up to 384KHz on I²S Output
- **Digital Input**
Coaxial, optical fiber, AES/EBU, USB
- **External Clock Input**
45.1548MHz 49.152Mhz
- **Digital Output**
AES/EBU x2 output, I²S HDMI LVDS/I²S RJ45 lvcmos, optical fiber, coaxial

Please note that the RJ45/HDMI ports of PHOENIX are not typical network/multimedia RJ45/HDMI ports. They are purpose-built I²S ports. Please do not connect it to the typical multimedia HDMI port (i.e. Bluray player/TV etc) / Ethernet network.

Panel information



1. USB input button
2. AES input button
3. SETUP button
4. OPT input button
5. COAX input button
6. OK button
7. AES/EBU output
8. I²S HDMI LVDS Standard
9. I²S RJ45 LVCMOS Standard
10. Optical fiber output
11. Coaxial output
12. Clock input
13. Coaxial input
14. Optical fiber input
15. AES/EBU input
16. USB input
17. Power input

Drive

Phoenix is equipped with a proprietary USB audio solution driven by STM32F446, which supports 24bit/768khz PCM data stream and DSD to DSD512 processed at this level

Licensed Thesycon USB Driver For Windows Platform

Download and install Thesycon USB Driver for Windows.

1. Connect the standard USB cable from PC USB port to the USB input
2. Select USB input. The USB input LED should illuminate
3. Check the PC audio device panel to see if it is connected to the machine

Driverless On Mac & Linux

No need to install the driver, it can be used by connecting

After connection, check whether it is connected to the machine in the sound setting

LED indicator

USB/AES/OPT/COAX

- Change according to the sound source key
- **Light off:** the sound source is not selected
- **Light on:** the sound source has been selected, in which the single AES mode light is on, and the dual AES mode light flashes
- **Light flashing:** select AES light flashing only when dual AES mode is enabled
- **SETUP**
Light off: home mode Light flashing: menu mode
- **EX.CLOCK**
Light off: internal clock Light on: external clock
- **DSD**
Light off: input signal is not DSD audio
Light on: input signal is DSD audio
- **OK**
ON when the OK button is pressed OFF when the OK button is released
- **I2S**
Light off: left and right channels of DSD are L/R Light on: right and left channels of DSD are R/L
- **44K1/48K**
Varies according to the sampling rate of the input signal
Light off: the input signal is not the sampling rate Light on: the input signal is the sampling rate
- **2x / 4x / 8x / 16x**
Change according to the sampling rate n times the frequency of the input signal Light off: the input signal is not n times the frequency of the sampling rate Light flashing: the input signal is n times the frequency of the sampling rate

Button description

USB button	<p>In home mode: Press to select USB sound source and USB light is On</p> <p>In menu mode: Press to enter USB upgrade function setting</p> <p>In function setting: No response when pressing the button</p>
AES button	<p>In home mode: Press to select the AES sound source and the AES light is On</p> <p>In menu mode: Press to enter single / dual AES function setting</p> <p>In function setting: No response when pressing the button</p>
OPT button	<p>In home mode: Press to select the opt sound source and the opt light is On</p> <p>In menu mode: Press to enter the external clock function setting</p> <p>In I2S pin and DSD left and right channel function settings: Press to switch DSD left and right channels</p> <p>In other function settings: No response when pressing the button</p>
COAX button	<p>In home mode: Press to select coax sound source and coax light is On</p> <p>In menu mode: Press to enter the external clock function setting</p> <p>In function setting: No response when pressing the button</p>
SETUP button	Press the button and the setup light flashes to enter the menu mode Press the button and the setup light is off to return to the home mode
OK button	<p>In home mode: Press the button without response and the OK light is On, and release it to turn Off</p> <p>In menu mode: Press the button without response and the OK light is On, then release it and it is Off</p> <p>In function setting: In function setting: press the button to switch the function setting and the OK light is On, then release the button to turn Off</p>

Function setting description

	Function Settings	Button Operation	LED indicator
USB Upgrade Function settings	Press the setup button to enter the menu mode, and then press the USB button to enter the USB upgrade function setting	First press the Setup button + usb button	Setup light flashes + USB light flashes
	In the USB upgrade function setting, press the OK button to upgrade the USB	Press the OK button again to upgrade	44k1 light off + 48k light off: Upgrade has not started
			44k1 light on + 48k light on: Upgrade can be started

Single / Dual AES Function setting	Press the setup button to enter the menu mode, and then press the AES button to enter the Single/Dual AES function setting	First press the Setup button + AES button	Setup light flashes + AES light flashes
	In single / dual AES function setting, press the OK button to switch between Single AES and Dual AES functions	Press the OK button again to switch	44k1 light on: Single AES mode
			48K light on Dual AES mode
External Clock Function setting	Press the setup button to enter the menu mode, and then press the opt button to enter the external clock function setting	First press the Setup button + OPT button	Setup light flashes + EX.clock light flashes
	In the external clock function setting, press the OK button to turn off and turn on the external clock function	Press the OK button again to switch	44k1 light off or 48K light off: Turn off the external clock
			44k1 light on or 48K light on: start the external clock
I2S Pin and DSD left and right channel function settings	Press the setup button to enter the menu mode, and then press the coax button to enter the I2S pin and DSD left and right channel function settings	First press the Setup button + COAX button	Setup light flashes + I2S light flashes
	In the I2S pin and DSD left and right channel function settings, press the OK button to switch the I2S pin	Press the OK button again to switch	44K1(DATA) 2X(BCK) 4X(LRCK) lights are off to be positive 44K1(DATA) 2X(BCK) 4X(LRCK) lights are on, it is negative
			16X light off L/R
	In the I2S pin and DSD left and right channel function settings, press the opt button to switch DSD left and right channels	Press the OPT button again to switch	16X light on R/L

I2S PIN

- **Package weight:** 7.5kg

Packing list

- PHOENIX *1
- User manual *1
- warranty card *1

Warranty

We take pride in the quality of our products with strict quality control checks. To give you more confidence, all of our products are provided with a three-years warranty. Within the first 30 days from the date of purchase, most items can be returned for refund or exchange if meet the following conditions.

Wish you enjoy a wonderful shopping experience!

RETURNABLE ITEM

Items that can be returned/refunded or exchanged with in 30 days of receipt must comply with the following standards

1. Any returned items must be accompanied by all accessories, hardware, manuals or instructions, and in the same new state as when shipped to you.
2. Any returned items will be evaluated after receipt. Of course, we will not refund any defective products caused by improper handling, improper use, tampering or improper use.
3. If there is no complete original packaging (original packing box, foam filling, etc.) at the time of return, 25%6 replenishment fee will be charged.


Tips: The items should be transported back safely. Before we received, You will take full responsibility. If you choose to replace, we will ship your replacement items free of charge.

RETURN FEE AND ADDRESS

We aim to provide services that benefit all our loyal customers. Global customers can return products to our Chinese warehouse. Please always contact us before returning items to relevant addresses.

1. All transportation costs are borne by the customer. This includes shipping costs for returns or exchanges. Shipping costs are non-refundable.
2. Please contact your local post office to confirm the actual return shipping fee before shipping back. We recommend that you use the cheapest postal service if available.

Documents / Resources

	<p>Musician PHOENIX High Performance Digital Interface [pdf] User Manual</p> <p>PHOENIX High Performance Digital Interface, PHOENIX, High performance digital interface, p erformance digital interface, digital interface, interface, PHOENIX High Performance Digital Inte rface</p>
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