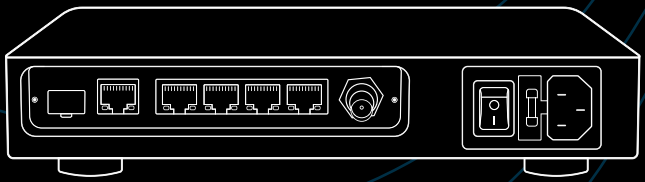
AS6
AUDIOPHILE SWITCH

INSTRUCTION MANUAL



LHY AUDIO

Dear user, thank you for purchasing LHY Audio products! Hope this product can meet your requirements and bring more fun to your life!

Product Features

1. A brand new self-developed audio hi-fi dedicated gigabit switch motherboard;
2. Provides 4 RJ45 interfaces, 1 ISOLATED isolation interface, 1 BNC clock input interface (10. 0MHz), and 1 independent SFP interface;
3. An imported high-precision SC-cut OCXO thermostatic crystal oscillator and a low phase noise PLL circuit are used;
4. An ultra-low noise uV-level pure linear DC regulator circuit with 3 independent LT3042+PNPs is used;
5. Aluminum alloy integral CNC hollowed out enclosure separates each different functional circuitry and reduces interference and mechanical resonance;

catalogue

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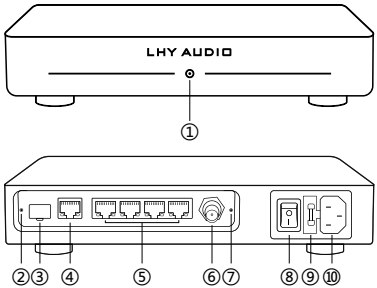
1. Description of product



Port description

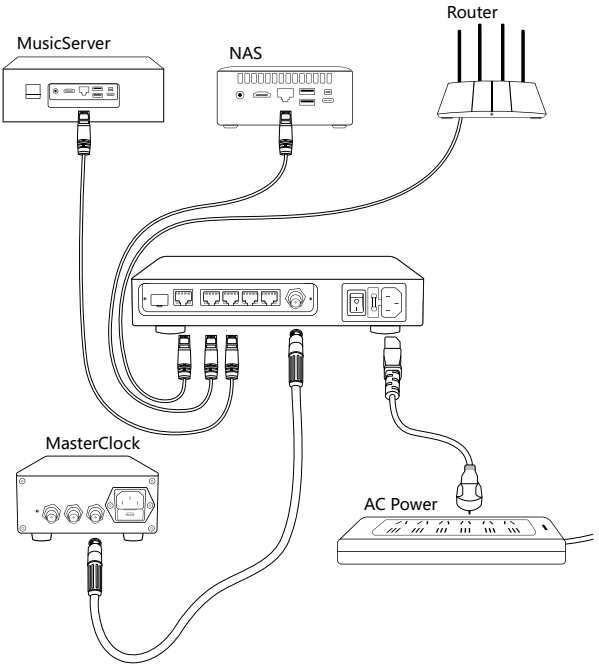
	name	illustrate
③	SFP Interface	Gigabit SFP optical/electrical module
④	Isolated Network Interface	Isolated RJ45 Gigabit Adaptive Network Interface
⑤	RJ45 Network Interface	4-way RJ45 Gigabit adaptive network port
⑥	BNC Interface	10MHz External clock input interface
⑧	Power	I ON O OFF
⑨	fuse	Power failure fuse protection
⑩	IEC Power interface	Use a suitable power cable to connect the mains

Description of indicator operation

	name	illustrate
①	Power indicator	Connect the optical network unit interface
②	SFP Interface indicator	Connection successful: always on
④	Isolated Network interface indicator	Steady orange: The connection is successful Blinking green: Data is being sent or received
⑤	RJ45 Network interface indicator	Steady orange: The connection is successful Blinking green: Data is being sent or received
⑦	Clock input indicator	Always on: Connect using an external clock

2. Connection device

When using the audio Ethernet switch, connect the power cable first (as shown in the figure), and then turn on the power switch. After power on, the indicator light is blue and always on. When connecting devices, connect the audio Ethernet switch with the device you want to connect with both ends of the network cable (as shown in the figure). The same applies to BNC interface and SFP interface.



3. Technical parameter

Parameter	Specification
Access method	10/100Mbps、10/100/1000Mbps
Wavelength	850nm/1310nm/1550nm
Transmission distance	multimode fibre 2km;monomode optical fiber 3km~120km;CAT5/6twisted-pair100m
Standard	IEEE 802.3、802.3u、802.3x
Performance	Whole-line rate and the forwarding rate of 64B frames、1000M port：1.488Mpps 100M port：0.1488Mpps、10M port：0.01488Mpps
wideband	10 Gbps(non-clogging)
BNC Interface	Input impedance 50 Ohms, 7dBm–14dBm. CMOS square wave 0.3V–3.3V, sine wave 0.5V–3.3V.
fuse	T1.0A 250V, 5x20mm
Conversion way	Medium conversion、Storage forwarding/straight in
Flow control	Full double state：flow control，Half-duplex state；Back pressure mode
Complete machine power consumption	Standby State 6.5W, Working State 6.5~15W
voltage	220~240VAC (customizable110~120VAC)
port	4 RJ 45 interfaces、1 ISOLATED interfaces、1 BNC interfaces、1 SFP interfaces
work environment	working temperature:-10~55°C, Working humidity:10%~90% No condensation
Storage environment	Storage temperature:-40~70°C, Store humidity:5%~90%No condensation
outline dimension	240x175x50mm（WxDxH）
weight	2.1kg
outer shell	Aluminum alloy whole hollowed out shell

4. Matters needing attention

To avoid equipment damage or personal injury caused by improper use, please follow the following precautions:

1. Before powering on the switch, please confirm that the power supply voltage in your area is consistent with the voltage marked on the switch;
2. Please do not place the switch near water or in a damp place, and prevent water or moisture from entering the switch case.
3. Please ensure the working environment of the switch is clean, too much dust will cause electrostatic absorption, which will not only affect the service life of the equipment, but also easily cause communication failures;
4. Please keep the ventilation hole of the switch unblocked, and do not stack it;
Before cleaning the switch, please unplug the power plug of the switch. Please do not wipe the switch with a damp cloth or use liquid to clean the switch.
To avoid the danger of electric shock, do not open the case when the switch is working. Even in the case of no power, do not open the switch case at will.

5. Fault detection

Fault Phenomena	Possible Reasons	Troubleshooting
PWR The power indicator is not on	1. No power socket connected or poor contact 2. Insurance pipe circuit breaker	1. Connect the power supply to the mains 2. Replace the appropriate insurance tube
RJ45 The interface indicator light is not on	1. The cable portion of the Ethernet port is not connected or in poor contact 2. The cable used is incorrect (if the general network cable should be used) 3. The Ethernet terminal equipment or network card is not working properly	1. Connect the cable 2. Use the correct type of cable 3. Troubleshoot the terminal equipment fault
SFP The interface indicator light is not on	1. May be an abnormal distal optical device 2. Optical cable interruption or incorrect connection 3. Excessive optical fiber optic link loss	Check whether the transmitting optical power of the remote optical equipment and the trunk optical cable are normal, and eliminate the cause of the fault
The connected external BNC indicator light is not on	1. Bad wire contact 2. External input frequency is incorrect	1. Connect the wire properly 2. Use the appropriate clock

6. Statement

Without the express written permission of the Company, no unit or individual shall without authorization imitation, copy, copy or translate the contents of this manual in part or in whole, and shall not be used in any form, any way (electronic, photocopying, recording and other ways) for commercial or profit-making purposes.
The product specifications and information mentioned in this manual are for reference only. They are subject to change without prior notice. Unless otherwise specified, this manual is for use instruction only and the statements made do not constitute any form of warranty.

7. Product warranty card

Dear Customer,

Thank you for purchasing a product from LHY AUDIO! This warranty card serves as the official proof of warranty for LHY AUDIO products and should be kept by the user. With this card, you are entitled to receive after-sales repair services provided by LHY AUDIO. Please keep it in a safe place.

This product comes with a one-year warranty. During the warranty period, LHY AUDIO provides complimentary repair services. If the product exceeds the warranty period from the date of purchase, LHY AUDIO will still offer repair services; however, labor and material costs will be borne by the customer.

Please ensure the product is properly packaged before return. LHY AUDIO is not responsible for any damage or loss incurred during transportation.

When requesting warranty service, please send the product along with the completed warranty card and proof of purchase (such as a copy of the invoice or receipt).

Product Information

Product Name:_____ Product Model:_____

Product number:_____ Date of purchase:_____

User name: _____ Contact Number:_____

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