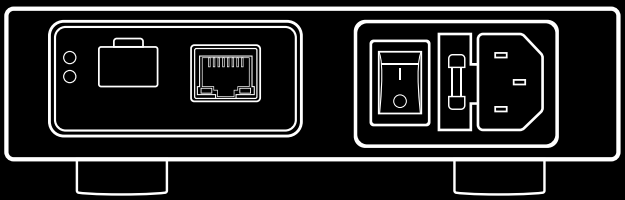
FMC

Audiophile Fiber Media Converter

Instruction manual



LHY AUDIO

Thank you for purchasing our product. Please read this manual carefully before use and strictly follow the instructions provided. Keep the manual properly for future reference.

Dear Valued Customer,

Thank you for choosing a product from LHY Audio! We hope it meets your expectations and brings more enjoyment to your life!

Product Features

1.Equipped with a digital isolation transformer

2.Provides one RJ45 (ISO) port and one SFP port

3.Utilizes an imported high-precision SC-cut OCXO temperature-controlled crystal oscillator with low phase noise PLL circuitry

4.Features three independent ultra-low noise linear DC regulators using LT3042 + PNP configuration, achieving microvolt-level noise performance

5.Integrated CNC-machined aluminum alloy chassis with compartmentalized internal layout to isolate different functional circuits, reducing interference and mechanical resonance

Table of Contents

Product Description·····3

Device Connection·····4

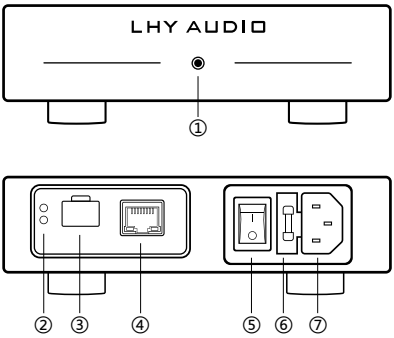
Technical Specifications·····5

Precautions·····6

Fault Detection·····7

Product Warranty Card ·····8

一、 Product Description



Port Description

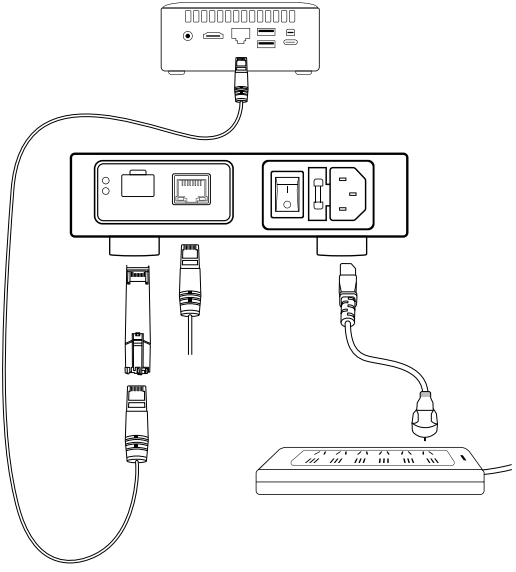
Name	Description
③ SFP Port	Gigabit SFP Optical/Electrical Module
④ RJ45 (ISO) Network Port	RJ45 Gigabit Adaptive Port
⑤ Power Switch	I ON ○ OFF
⑥ Fuse	Power Fault Protection (via Fuse Blowing)
⑦ IEC Power Inlet	Connect to Mains with a Suitable Power Cord

Indicator Light Status Description

Name	Description
① Power Indicator Light	Blue light steady on
② SFP Port Indicator Light	Green light steady on: Connection successful Yellow light blinking: 100/1000 Mbps
④ RJ45 Network Port Indicator Light	Green off, yellow blinking: 10/100 Mbps Green steady on and yellow blinking: 1000 Mbps

二、Device Connectio

When using the fiber media converter, first connect the power cord (refer to the diagram for connection method), then turn on the power switch. Once powered on, the power indicator light will remain solid blue. To connect devices, use appropriate cables to link the audio fiber media converter to the desired equipment (refer to the diagram for connection method). The SFP port must be used with an SFP module (refer to the diagram for connection method).



三、Technical SpecificationsSpecifications

Parameters	Specifications
Access Method	10/100Mbps、10/100/1000Mbps
Standards	IEEE 802.3、802.3u、802.3x
Transmission Distance	Multimode fiber: 2 km
	Single-mode fiber: 3 km ~ 120 km
	CAT5/6 twisted pair cable: 100 m
Performance	Full line-rate forwarding for 64-byte frames
	1000M port: 1.488 Mpps
	100M port: 0.1488 Mpps
	10M port: 0.01488 Mpps
Bandwidth	10 Gbps (non-blocking)
SFP Port	Maximum distance is 550 m at 1.25 Gbit/s Gigabit Ethernet speed,
	or 150 m at 4.25 Gbit/s Fibre Channel speed.
Fuse	T1.0A 250V，5x20mm
Conversion Method	Media conversion, store-and-forward / cut-through
Flow Control	Full-duplex mode: Flow control
	Half-duplex mode: Backpressure method
Power Consumption	Standby: 5W　Operating: 7–10W
Voltage	220~240 VAC (customizable to 110~120 VAC)
Ports	1 RJ45 (ISO) port, 1 SFP port
Dimensions	150 × 175 × 50 mm (W × D × H)
Weight	1.5kg
Chassis	CNC-machined aluminum alloy hollow chassis

四、Precautions

To prevent damage to the device or personal injury caused by improper use, please follow these precautions:

1.Before powering on the fiber media converter, please confirm that the local mains voltage matches the voltage specified for the device.

2.Do not place the fiber media converter near water or in damp locations, and prevent water or moisture from entering the device enclosure.

3.Ensure the working environment of the fiber media converter is clean; excessive dust may cause static buildup, which not only shortens device lifespan but also may cause communication failures.

4.Keep the ventilation openings of the fiber media converter unobstructed; do not stack or block airflow.

5.Before cleaning the fiber media converter, unplug the power cord. Do not wipe the device with a wet cloth or use liquid cleaners.

6.To avoid electric shock, do not open the device enclosure while it is powered on. Even when powered off, do not open the enclosure without authorization.

五、Fault Detection

Fault	Possible Causes	Troubleshoot-
Power indicator light not lit	1. Power cord loose or unplugged 2. Fuse blown	1. Connect power properly 2. Replace proper fuse
RJ45 LED not lit	1. Ethernet cable not connected or poor contact 2. Incorrect cable used (e.g. straight-through instead of crossover) 3. Ethernet device or network card malfunctioning	1. Connect cable properly 2. Use correct cable type 3. Check terminal device for
SFP LED not lit	1. Possible remote optical device failure 2. Fiber optic cable broken or improperly connected 3. Excessive fiber optic link loss	Check the remote optical device’ s transmit power and the main fiber optic cable for normal operation to identify and eliminate the cause of the fault.

七、Product Warranty Card

Dear Valued Customer,

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

1. This product comes with a one-year warranty. During the warranty period, LHY AUDIO provides complimentary repair services. If repairs are needed after the warranty period has expired, LHY AUDIO will still offer repair services; however, labor and material costs will be charged to the customer.
2. Please ensure the product is properly packaged to avoid damage or loss during transportation.
3. To request warranty service, please return the product along with a fully completed warranty card and proof of purchase(such as a copy of the invoice or receipt).

Product Information

Item Name: _____ Product Model: _____

Product ID: _____ Purchase Date: _____

User Name: _____ Phone Number: _____

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