

XLR Balanced Audio to Fiber Optical Converter Series

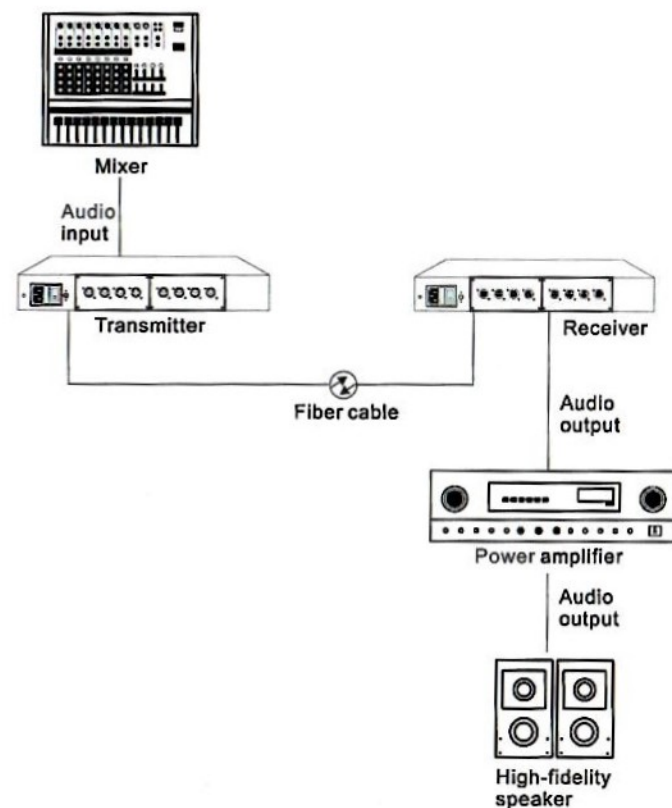
User's Manual

Technical Indexes

Fiber index	
Wavelength	1310nm&1470nm~1610nm(selection is based on device function)
Tx power	> -7db
Rx sensitivity	> -24db
Fiber connector	FC(SC,ST,LC optional)
Audio index	
Signal level	0.5-4Vp-p
Dynamic bandwidth	101 dB
Total harmonic distortion (THD)	-90 dB
Sampling frequency	192 KHz
Audio A/D sampling	24 Bit
Signal to noise ratio(SNR)	100 dB
Amplitude frequency characteristic	$\leq \pm 0.5$ dB
Audio input/output impedance	600 Ω balance
Audio maximum input/output voltage	0~4V /0~2.5V
Audio gain	± 0.1 dB
Maximum input level	≥ 9.5 dBm
Non-linear distortion	$\leq 0.2\%$
Audio physical interface	Carnon head female(transmit)
	Carnon head male(receive)
Environment index	
Operating temperature	-20°C ~ 70°C
Storage temperature	-40°C ~ 85°C
Relative humidity	5 to 95%(non-condensing)
Working life	> 100,000hours
Power supply mode	
Desktop	DC 12V1A
Rack-mounted	AC 110~240V 50/60Hz

Connection Diagram

Case equipment: 8 channels forward xlr balanced audio to fiber optical converter



The connection diagram is for reference only

1. The audio power amplifier signal cannot be directly sent to the fiber optical converter to prevent burning
2. Each carnon head connector of the device is mono channel

Printed indicator status description

Transmitter	
POWER	Off: the device is powered off On: the device is powered up
FIBER	Off: fiber signal is blocked or due to excessive attenuation On: fiber signal is properly received
Receiver	
POWER	Off: the device is powered off On: the device is powered up
FIBER	Off: fiber signal is blocked or due to excessive attenuation On: fiber signal is properly received

Product Types

Serial no.	Product Configuration	Dimensions
1	1 Channel Forward XLR Balanced Audio to Fiber Optical Converter	167*114*45mm
2	2 Channel Forward XLR Balanced Audio to Fiber Optical Converter	167*114*45mm
3	4 Channel Forward XLR Balanced Audio to Fiber Optical Converter	167*114*45mm
4	8 Channel Forward XLR Balanced Audio to Fiber Optical Converter	445*220*44.5mm
5	16 Channel Forward XLR Balanced Audio to Fiber Optical Converter	445*220*89mm
6	32 Channel Forward XLR Balanced Audio to Fiber Optical Converter	445*220*133.5mm
7	1 Channel Bidirectional XLR Balanced Audio to Fiber Optical Converter	167*114*45mm
8	2 Channel Bidirectional XLR Balanced Audio to Fiber Optical Converter	167*114*45mm
9	4 Channel Bidirectional XLR Balanced Audio to Fiber Optical Converter	445*220*44.5mm
10	8 Channel Bidirectional XLR Balanced Audio to Fiber Optical Converter	445*220*89mm
11	16 Channel Bidirectional XLR Balanced Audio to Fiber Optical Converter	445*220*133.5mm

Features

- 1.Supports 1 to 32 channels of balanced audio forward/bidirectional transmission
- 2.Broadcast standard analog balanced audio
- 3.Using FPGA, digital coding/decoding and clock recovery technology, high integration and high stability
- 4.Audio interface is XLR cannon head balance interface, high dynamic range of 100dB
- 5.Automatic high-pass filtering, isolation of DC offset
- 6.Intelligent noise control system; for soft rising or falling slant waves and analog noise with 100dB SNR in blast-free operation
- 7.Audio interface is in level 3 lightning protection, up to iec61000-4-5 (8/20 μ s) differential mode :6KV
- 8.Single and multi-mode compatible, multi-mode transmission distance is 1KM, single-mode transmission distance 20KM, supporting customized transmission distance of up to 100KM
- 9.LED status indicator to monitor the running status of the device
- 10.Plug and play, no setup required
- 11.Devices are used in pair. note that devices are distinguished between transmitter and receiver

Attention

Lightning protection, static electricity and grounding:

It is recommended that when install the device, consideration should be given to the impact of grounding by lightning, and take prevention measures. Strong static electricity will damage the optical device and data chip in the equipment. It is recommended that when plug/unplug the data port of the optical converter, please disconnect the power supply of the optical converter first.

Fiber and optical components:

Be careful when plugging the optical fiber as optical components of the optical converter is very fragile, and it should avoid causing damage to the optical components. It should be noted that the light source produced by the optical components of the optical converter will be harmful to eyes, so do not have direct eye contact with the optical components of optical converter. If you need to detect the optical power of the optical converter, please use the optical power meter.

Equipment and installation procedures:

- 1.Optical fiber installation: please carefully insert the optical fiber into the optical fiber interface of the optical terminal after confirming that the optical fiber link meets the installation requirements.
- 2.Equipment installation: The equipment can be distinguished between transmitter and receiver, and it is stated clearly on the label and printed on the chassis of the equipment.