

Analog Audio Fiber Optic Extender

Model No: FLA20

Description

The analog audio fiber optic extender is to transmit 2-ch forward balance audio over single core optical fiber cable to a long distance. This extender contains an electrical to optical converter and an optical to electrical converter. It takes most advantage of fiber cable anti-interference and reliability to make sure the original source audio could be transmitted to a remote place. We could supply analog audio or digital AES/EBU audio fiber box with different configurations according to your actual project request.

Features

1. 2-ch forward audio over single core fiber
2. Balanced analog audio with XLR connector
3. Broadcast quality level with high integration and stability
4. FPGA solution, digital coding/decoding and clock recovery technology
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. Single fiber, ST/SC/FC/LC fiber port optional
8. Single mode for 20KM standard, optional 100KM max
9. LED status indicators monitor the critical parameters
10. could be 64 channels of audio over single core fiber
11. We could make it as your requested specifications like mixing with other SDI/DVI/HDMI/DP/VGA video signal



Order Info

Model Number	Specification
FLA20	2-Ch forward audio, balanced analog, XLR connector, single mode, single fiber, FC/SC/LC/ST fiber port, stand alone, 20KM

Application

Remote OB Van/Truck Video Feeds, Broadcast Studio Camera Feeds, TV station/video conference, broadcast live transmission, Medical/Surgical Room Broadcast, Building to Building video conference, video wall controller, command center.

Specification

Audio	Number	2 input on TX and 2 output on RX
	Audio physical interface	Carnon head female/male
	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	$\leq 0.2\%$
Fiber Optic	Channel	1
	Wavelength	1310nm&1470nm~1610nm (selection is based on device function)
	Tx power	> -7 db
	Rx sensitivity	> -24 db
	Fiber connector	FC (SC,ST,LC optional)
Power and Environmental	Operating temperature	-20°C ~ 70°C
	Storage temperature	-40°C ~ 85°C
	Relative humidity	5 to 95% (non-condensing)
	Working life	$> 100,000$ hours
	Desktop	DC 12V1A
	Rack	AC 110~240V 50/60Hz

Diagram

