Audio to fiber converter XLR port

XLR Port -OFC

Audio to fiber converter XLR port

Variants

4CH Bidirectional 4CH Forward 2CH Forward 1CH Forward 1CH Bidirectional 8CH Forward 2CH Bidirectional

Details

Balanced Audio Optical Transceiver

The Balanced Audio Optical Transceiver is designed for high-quality audio transmission over optical fiber using advanced digital uncompressed technology. It ensures real-time, distortion-free signal transmission, making it ideal for security systems, broadcasting, intelligent transportation systems (ITS), and professional audio applications.

Key Features

All-digital uncompressed audio transmission for zero signal distortion
Supports long-distance transmission up to 20 km over single-mode fiber
Balanced XLR audio interface for professional applications
Real-time transmission with high signal-to-noise ratio
No on-site adjustment required, plug-and-play operation
LED indicators for power and link status monitoring
Durable aluminum alloy casing suitable for harsh environments

Technical Specification

Category	Specification
Product Type	Audio Optical Transceiver
Transmission Type	Digital Uncompressed Optical Transmission
Application	Audio over Fiber (Security, Broadcast, ITS)
Transmission Distance	Up to 20 km
Fiber Type	Single Mode (9/125 µm)
Wavelength	1310 nm / 1550 nm
Optical Output Power	-8 to +3 dBm
Receiver Sensitivity	-14 to -17 dBm
Fiber Connector	FC / SC / ST (Optional)
Audio Interface	XLR (Balanced)
Audio Impedance	600 Ohm
Max Audio Voltage	3.0 Vp-p
Frequency Response	10 Hz – 3 kHz
Total Harmonic Distortion	0.05%
Signal-to-Noise Ratio	> 95 dB
Transmission Technology	All-digital, real-time, no distortion
Optical Technology	Gigabit Fiber Transmission
Indicators	LED Status (Power / Link)
Adjustment	No On-site Tuning Required
Installation	Standalone or Rack Mount

Category	Specification
Casing Material	Aluminum Alloy
Power Supply	AC 220V
Operating Temperature	-35°C to +70°C
Humidity	0% – 95% (Non-condensing)

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