Audio to fiber converter Terminal port

The Audio to Fiber Converter uses advanced digital fiber transmission technology for real-time, distortion-free audio and data transmission. It supports single or multimode fiber with a range of up to 120KM. Features include uncompressed signal transfer, multiple interface options (FC/SC/ST), and compatibility with Ethernet, data, audio, and telephone signals. It's reliable, easy to install, and ideal for versatile applications with stable performance in various environments.

Audio to fiber converter Terminal port

Variants

4CH Un-bidirectional 4CH bidirectional 1CH Un-bidirectional 1CH bidirectional 2CH Un-bidirectional 2CH bidirectional

Details

Audio to Fiber Converter (Multi-Signal Transmission)

The Audio to Fiber Converter uses advanced digital optical transmission technology to deliver real-time, distortion-free audio and multi-signal transmission over fiber. It supports audio, data, Ethernet, and telephone signals over a single fiber, ensuring stable and high-quality communication for industrial and telecom applications.

Key Features

Independent structure, suitable for 2U rack installation
Uncompressed real-time signal transmission
Gigabit optical fiber transmission with high capacity
Stable performance with advanced hardware design
LED indicators for power and system status monitoring
Supports single-mode and multi-mode fiber
Supports FC / SC / ST fiber interfaces

Transmission distance up to 120KM (SMF)

General Specifications

Signal Type	Data, Ethernet, Audio, Telephone
Channel	1 Channel
Fiber Wavelength	850nm / 1310nm / 1550nm
Output Power	-9.5 ~ -3 dBm @ 850nm
Receiver Sensitivity	-15 dBm @ 850nm
Fiber Port	FC / SC / ST (Single Fiber)
Transmission Distance	MM: up to 2 km SM: up to 10 km (Standard) Optional: up to 120 km

Power Specifications

Power Supply	DC 5V
Power Consumption	< 10W

Ethernet Interface

Ethernet Port	RJ45 (10/100 Mbps)
Standards	IEEE 802.3, 802.3u, 802.3ab, 802.3z

Data Interface

Interface Type	Industrial Terminal Block
Signal	RS-232 / RS-422 / RS-485

Rate	? 384 Kbps

Audio Specifications

Signal Type	Unbalanced Audio
Impedance	600?
Max Voltage	2Vp-p
Frequency Response	10Hz – 20kHz
THD	< 0.05%
SNR	> 95 dB

Environmental

Operating Temperature	0°C to +55°C
Storage Temperature	-20°C to +70°C
Humidity	0% – 95%
MTBF	> 30,000 hours