Datasheet

FMX-EA-HDMI-2KT | UHD Fiber Optic HDMI Advance Transmitter



Key features

- Stable large optical module design for signal and data transfer
- 4K30Hz HDMI video resolution support on fiber transmission
- Large optical module for superior signal quality and stability
- Long-distance HDMI transmission over optical fiber
- Supports RS485 cascading and remote control commands
- HDCP 1.4 compliant, supports remote control features
- HDMI interface with power-off loop out functionality
- Compact design with DC 5V power supply suitable for professional environments

Product Overview

The FMX-EA-HDMI-2KT Optical Fiber Extender is designed for high-quality 4K30Hz HDMI signal transmission over long distances using advanced large optical modules. This transmitter unit delivers superior video and audio clarity for professional installations requiring stable, noise-free, and lossless data transfer via optical fiber. Ideal for conference rooms, control centers, and digital signage, this product ensures uninterrupted signal integrity with support for RS485 cascading control and HDCP 1.4 compliance for enhanced content protection.

Technical Specification

Feature	Details
Audio Input	3.5mm Audio in x1, HDMI x1
Audio Output	HDMI x1 (dual channel, 48KHz)
Video Input	HDMI x1 (up to 4K30)
Video Output	HDMI x1 (4K30, power-off loop out); Fiber x1 (4K@60)
DIP Switch	8PIN: audio embedding, center control; 4PIN: RS485
Transmission Distance	HDMI Up to 15m, Fiber up to 2km
Control Interface	RS485 (baud rate adjustable, default 115200bps)
Power	DC 5V/4A
Power Consumption	10W
Size	170mm x 113mm x 30mm
Operating Temp/Humidity	-20°C~+50°C; 10%~90%
Storage Temp/Humidity	-5°C~+30°C; 20%~75%
Certifications	CE, RoHS compliance

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