AVBRINX-FSE50K-T/R | HDMI Extender Over Fiber Optic with KVM, EDID





Key features

- Supports ultra HD 4K@60Hz resolution with RGB444 and YUV color spaces.
- Transmits HDMI signals reliably up to 2 kilometers via fiber optic cable.
- Built-in KVM functionality for seamless keyboard, video, and mouse control.
- Customizable EDID management for easy display compatibility.
- Audio embedding and de-embedding via 3.5mm ports.
- Industrial-grade hardware design ensures stable 24/7 operation.
- Wide operating temperature range from -10°C to 50°C.
- Upgradeable fiber optic module.

Product Overview

The Macsys AVBRINX-FSE50K-T/R is an advanced HDMI extender over fiber optic cable designed for reliable, long-distance transmission of high-definition video and control signals. Supporting ultra-high-definition 4K@60Hz resolution with low transmission loss and zero electromagnetic interference, this fiber optic extender ensures crystal-clear visual and audio quality over distances up to 2 kilometers. It incorporates KVM functionality and customizable EDID management, making it ideal for audio-visual control integration in versatile environments such as video conferencing, security monitoring, broadcasting, and smart community installations. The industrial-grade design supports continuous 24/7 operation with embedded hardware ensuring high stability and performance in demanding conditions.

This powerful extender addresses the needs of professional AV systems seeking ultra-long reach and uncompromised signal integrity with added benefits of audio embedding/de-embedding and user-friendly EDID dialing capability. Macsys AVBRINX-FSE50K-T/R is a future-ready solution for sophisticated AV integration with scalable upgrade options for fiber modules.

Technical Specification

Feature	Details
Model	**AVBRINX-FSE50K-T (Transmitter)**
Input	HDMI
Output	Fiber Module
Supported Resolution	Up to 4K@60Hz (4:2:0)
Color Space	RGB444, YUV
Protocol	HDMI 1.4, USB 1.1
Transmission Distance	Up to 2 kilometers (upgradeable)
Voltage	DC 12V
Power Consumption	≤10W
Size (mm)	155 x 85 x 30
Operating Temperature	-10°C to 50°C
Storage Temperature	-25°C to 55°C
Weight	About 0.8 KG
Model	**AVBRINX-FSE50K-R (Receiver)**
Input	Fiber Module
Output	HDMI
Supported Resolution	Up to 4K@60Hz (4:2:0)
Color Space	RGB444, YUV
Protocol	HDMI 1.4, USB 1.1
Transmission Distance	Up to 2 kilometers (upgradeable)
Voltage	DC 12V
Power Consumption	≤10W
Size (mm)	155 x 85 x 30
Operating Temperature	-10°C to 50°C
Storage Temperature	-25°C to 55°C
Weight	About 0.8 KG
Certifications	CE, RoHS compliance

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