Datasheet

FMX-HDMI-R | Fiber Optic HDMI, RS232, Receiver Box



Key features

- High-performance fiber optic HDMI receiver supporting full HD video.
- Compatible with FMX-HDMI-T transmitters for seamless AV signal reception.
- Supports 5 digital I/O and bi-directional RS-232 control.
- HDCP compliant for secure HDMI transmission.
- Long-distance fiber support: MM OM3 up to 500m, SM up to 1 km.
- USB firmware update functionality for easy system upgrades.
- LED indicators for real-time monitoring of device status.
- Built with high-quality components designed for reliable performance in 35–85% humidity conditions.

Product Overview

The FMX-HDMI-R Fiber Optic HDMI Receiver Box is engineered for high-performance AV signal reception over long-distance fiber optic links. Designed to complement FMX-HDMI-T transmitters, it ensures crystal-clear HDMI video output with full support for 5 digital I/O and RS-232 control signals. Ideal for professional AV installations, conference rooms, control centers, and educational facilities, this receiver provides HDCP-compliant high-definition video up to 1920×1080@60Hz and full HDTV 1080p@60Hz resolution, preserving visual fidelity without compression.

Built for reliability, the FMX-HDMI-R supports single-core multi mode and single mode SC fiber, delivering stable transmission up to 500m on MM OM3 fiber and 1 km on SM fiber. Its compact and rugged enclosure chassis is suitable for both standard rack and desktop setups, while LED status indicators simplify monitoring. With USB firmware update support, universal AC input (100–240V), and low-noise operation, this receiver ensures uninterrupted, high-quality AV signal delivery in mission-critical applications.

Technical Specification

Feature	Details
HDMI Output	Receiver box, SC fiber input
Fiber Type	Single-core Multimode / Single mode SC fiber
Supported Resolution	1920×1080@60Hz
Maximum Distance	MM OM3: 500m, SM: 1 km
Control Interfaces	Bi-directional RS-232
I/O Port	5 Digital I/O
Firmware Update	USB FW update support
Status Indicators	LED indicators for device status
Power Input	100–240V AC
Power Output	5V, 4A
Operating Temperature	0–50°C (32–122°F)
Storage Temperature	–20–85°C (–4–185°F)
Humidity	35–85% RH
Enclosure Size	150 mm × 99.5 mm × 22 mm
Certifications	CE, RoHS compliance

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