Datasheet

FMX-HDMI-T | Fiber Optic HDMI, RS232 Transmitter card



Key features

- Transmits HDMI video and bi-directional RS-232 signals over a single fiber optic cable
- Supports HDCP-compliant content protection
- Delivers high-resolution video up to 1920×1080@60Hz / HDTV 1080p@60Hz
- Compatible with single-mode and multimode SC fiber connections
- Hot-swappable design for minimal downtime
- USB firmware update support for future enhancements
- LED indicators for real-time status monitoring
- Built with high-quality components designed for reliable performance in 35–85% humidity conditions.

Product Overview

The FMX-HDMI-T Fiber Optic HDMI & RS-232 Transmitter is a high-performance solution for extending HDMI video and bi-directional RS-232 control signals over long distances using a single fiber optic cable. Engineered for professional AV installations, control rooms, broadcasting setups, and large-scale video wall systems, this transmitter ensures flawless high-definition video delivery up to 1920×1080@60Hz and full HDTV 1080p@60Hz resolution.

Its HDCP compliance for secure content transmission, while support for both single-mode and multimode fiber allows for flexible deployment across different network infrastructures. Designed with reliability in mind, the FMX-HDMI-T includes hot-swappable functionality, LED status indicators, and USB firmware upgrade support for seamless operation. With its robust construction and wide operating temperature range, it is ideal for mission-critical AV and control system applications where signal integrity and long-distance transmission are essential.

Technical Specification

Feature	Details
HDMI Input	HDMI Input Card
Fiber Output	SC fiber connection
Fiber Type	Single Core Multimode / Single mode SC fiber
Supported Resolution	1920×1080@60Hz, HDTV 1080p/60
Maximum Transmission Distance	MM OM3: 500m, SM: 1 km
RS-232	Bi-directional
Humidity	35%–85% RH
Firmware Update	USB support
LED Status Indicator	Yes
Hot Swappable	Yes
Operating Temperature	0–50°C (32–122°F)
Storage Temperature	–20–85°C (–4–185°F)
Certifications	CE, RoHS compliance

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