Datasheet

FMX-ER-3G-SDI-15T | Fiber Optic 3G-SDI Transmitter



Key features

- High-speed 3G-SDI fiber optic transmitter for long-distance video delivery.
- Transmission distance: up to 1500 meters over single-mode fiber.
- Supports HD video resolutions up to 1080P@60Hz.
- Compliant with SMPTE 425M, 424M, 292M, 259M-C standards.
- Supports RGB444, YUV444, YUV422 color spaces.
- Compatible with x.v.Color color gamut expansion standard.

Product Overview

The FMX-ER-3G-SDI-15T is a high-performance fiber optic 3G-SDI transmitter designed for professional AV, broadcast, and high-definition video applications. Engineered for long-distance transmission, it supports up to 1500 meters over single-mode fiber, ensuring crystal-clear, uncompressed HD video signals without signal degradation.

Built to handle all standard digital HD resolutions, including 1080P@60Hz, this transmitter guarantees superior video quality for demanding environments such as live events, studios, and broadcast facilities. It fully supports SMPTE 425M, SMPTE 424M, SMPTE 292M, and SMPTE 259M-C standards, ensuring broad compatibility with existing professional AV and broadcast infrastructures.

The device supports advanced color spaces including RGB444, YUV444, YUV422, and is compatible with the x.v.Color color gamut expansion standard, delivering vivid and accurate color reproduction. Its robust design and long-distance fiber transmission make it a reliable solution for professional high-definition video signal distribution, offering users flexibility, efficiency, and unmatched video clarity.

Technical Specification

Feature	Details
Transmission Distance	Up to 1500 meters (single-mode fiber)
Video Standards Supported	SMPTE 425M, SMPTE 424M, SMPTE 292M, SMPTE 259M-C
Maximum Resolution	1080P@60Hz
Color Space	RGB444, YUV444, YUV422
Color Gamut	x.v.Color expansion standard
Signal Type	Serial Digital 3G-SDI
Use Case	Professional AV, Broadcast, Live Events
Input Interface	3G-SDI
Output Interface	Fiber Optic
Certifications	CE, RoHS compliance

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