

SDI to Fiber Optic Adapter

An Extensive Library of Self-Developed Products



AI Overview

An SDI to Fiber Optic Adapter converts SDI video signals into optical signals for long-distance transmission, often supporting bidirectional conversion and multiple SDI standards.

Overview An SDI to Fiber Optic Adapter allows you to transmit SDI video signals over optical fiber, which significantly reduces signal loss and electromagnetic interference compared to traditional coaxial cables. These adapters are commonly used in broadcast, live events, and industrial environments where long-distance video transmission is required.

Key Features

- Bidirectional Conversion:** Many adapters, such as the Blackmagic Mini Converter Optical Fiber 12G and Antmicro SDI-Fiber Adapter, support simultaneous SDI-to-fiber and fiber-to-SDI conversion.
- Supported SDI Standards:** Devices typically support SD (SMPTE ST-259), HD (SMPTE ST-292), 3G (SMPTE ST-424), and can be upgraded to 6G or 12G for Ultra HD and 4K video.
- Fiber Interface:** Uses SFP or SFP+ modules, allowing flexibility with single-mode or multi-mode fiber and connector types such as LC, ST, or SC.
- Reclocking and Signal Integrity:** Integrated reclockers ensure stable video transmission over long distances, maintaining signal quality up to 10 km or more depending on fiber type.
- Power and Connectivity:** Many adapters are powered via USB-C or included power supplies, and SDI ports use standard BNC connectors for easy integration.

Practical Applications

- Long-Distance Video Transmission:** Optical fiber allows SDI signals to travel up to 10 miles without degradation, ideal for stadiums, large venues, or remote broadcast setups.
- High-EMI Environments:** Fiber-optic transmission is immune to electromagnetic interference, making it suitable for industrial sites, construction areas, or events with heavy electronic equipment.
- Flexible Video Standards:** Multi-rate SDI support ensures compatibility with SD, HD, 3G, 6G, and 12G video sources, allowing seamless integration into existing broadcast or production workflows.

Popular Products Blackmagic Mini Converter Optical Fiber 12G: Converts SDI to fiber...

Article Content

SDI to Fiber

SFP-based video transmission for interoperability with standard SDI over fiber devices. Choice of three optical connectors, each available as single- mode and

3G-SDI Extender Over Fiber Optic, SDI Video/Ethernet/RS422

About this item It can extend one 3G-SDI or HD-SDI Video/Audio signal over a fiber optic to far end, long transmission distance, Single-mode fiber can up to 12.4 Miles (20Km). with two 3.125G SFP optical

Where to Buy SDI Over Fiber | SDI to Fiber Converter | Markertek

Shop SDI & HD-SDI fiber extenders for reliable long-distance AV transmission. Explore quality brands and solutions. Fast shipping from Markertek.

MultiDyne SilverBack-VB Camera Back Transceiver

Shop MultiDyne SilverBack-VB Camera Back Transceiver - 12G-SDI - opticalCON DUO-Gold Mount. Search all Multidyne in SDI & HDSDI Over Fiber Extenders.

Mini Converters | Blackmagic Design

Compact converter for extending SDI connections over massive distances by converting SDI to optical fiber and optical fiber to SDI in both directions at the same time!

Best SDI over Fiber solutions

Transmit SD, HD, and 3G-SDI video over fiber with zero latency and no compression. Supports 1080p60 for broadcast, live production, and long-distance video applications.

Antmicro's open hardware SDI-Fiber Adapter for long

The SDI-Fiber adapter is a device with a pair of SDI ports and SFP dual fiber transceiver. It can be used for bidirectional video conversion - either as

Used AJA FiDO-4T 4-Channel 3G-SDI to Single-Mode LC Fiber Mini ...

AJA FiDO-4T is a 4-channel 3G-SDI to optical fiber converter, designed to transmit up to four independent SDI signals over long-distance optical fiber.

Optical Fiber Converters Product Family

Optical Fiber Converters Overview FiDO is AJA's family of SDI/Optical Fiber converters. FiDO allows the transport of 12G/3G/HD/SD-SDI over distances up to 10km when using standard Single-Mode fiber

Amazon : Fiber To Sdi

3G-SDI Over Fiber Optic Media Converter SDI Video Audio 100Mbps Ethernet RS422 Data to Fibre Adapter LC-LC Singlemode Single Fiber up to 20Km 3G SFP Include A Pair

Blackmagic Design Mini Converter Optical Fiber 12G-SDI

The Mini Converter Optical Fiber 12G-SDI from Blackmagic Design offers bidirectional, multi-rate SDI to optical fiber conversion capabilities with complete

Mini Converter Bidirectional SDI to Optical Fiber 12G

This Bidirectional SDI to Optical Fiber 12G Mini Converter from Blackmagic Design offers up to 10 miles of extended range via fiber. It's perfect for connecting

Mini Converters - Tech Specs | Blackmagic Design

Mini Converter Optical Fiber 12G converts SDI to optical fiber and optical fiber to SDI in both directions at the same time, you can even have different video standards going in each direction!

Antmicro's open hardware SDI-Fiber Adapter for long

With that in mind, Antmicro designed the SDI-Fiber Adapter - a bidirectional adapter that sends video from a 3G-SDI source into a fiber-optic

Mini 12G-SDI Video to LC Fiber Optical Converter

This compact device supports 1-channel 12G-SDI Video/Data signal transmission via fiber optical cable, allowing you to monitor signals locally with a 12G-SDI loop output. Designed for versatility, this converter is compatible with a wide range of SDI standards, including 12G, 6G, 3G, HD, and SD.

S-4605 SDI to OPTICAL Converter

Availability: Usually ships the next business day The S-4605 is a portable mini converter for SDI to LC single mode Optical Fiber converter, widely used on

HD SDI to Fiber Installation Kits | SDI over Fiber | SDI

VERSITRON's SDI over fiber converters ensures seamless transfer of uncompressed and unencrypted electronic audio and video signals. Our HD-SDI

Amazon : Fiber To Sdi

AVMATRIX FE1121 3G/HD SDI Fiber Optical Extender with SFP Module (LC Port), Supports 3Gbit Level A & Level B (All formats), Single-Mode Fiber Uncompressed No Losses No Latency 20Km

2 channel SDI over fiber

Thor F-M2SDI fiber optic SDI transmitters and receivers use locking-type ST or FC fiber connectors and BNC video cables to ensure that no cable is not

200G Modules

GIGALIGHT provides a series of pluggable 3G/12G/48G SDI video optical modules for 4K/8K UHD video over fiber transmission networks. The SDI video optical modules can be used on the extenders and

Blackmagic Design Mini Converter Optical Fiber 12G

Product Description Blackmagic Mini Converter Optical Fiber 12G is a converter that can convert signal between SDI and fiber optic simultaneously and extend SDI

3G-SDI to Fiber converter, with SFP optical module

VOSCOM 3G-SDI to Fiber converter, VOS-1H3G-T/R provides for the digital transmission of 1-Channel uncompressed 3G-SDI, HD-SDI or SD-SDI 1080p video over fiber.

Markertek: Video Cameras, Intercom, Wireless Mics, Cable, Connector

Popular Categories See All Categories Video Production Mixers PTZ Cameras Intercom Systems Video Converters SDI Fiber Extenders Connectors & Adapters Bulk Cable BNC Cables

SDI Over Fiber Extenders

F-Micro-SDI transmitter and receiver kit for transporting HD-SDI and SD-SDI digital broadcast video signals over fiber cable. Provides 1 channel of RS-485 control

Rgblink Msp 405

It provides full bidirectional conversion between HDMI 2.0, SDI, and fiber optic signals, with automatic format adaptation for seamless integration across multiple video sources. The unit supports video

Theatrixx Technologies SDI to Optical Fiber XVV

The SDI to Optical Fiber Transmitter xVision Video Converter from Theatrixx Technologies is a plug-and-play SDI video to optical fiber converter designed to

Contact Us

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