

OCEAN MATRIX®

USER MANUAL

OMX-3GSDI-FIBER

3GSDI to Fiber Optic Converter Extender



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The **Ocean Matrix-3GSDI-FIBER** fiber optic converter extender is an economic, space saving long haul transmission solution for broadcast infrastructure and IO panels. This extender transmits an 3G-SDI signal over an LC singlemode fiber optic cable with automatic cable equalization and reclocking at 270Mbps, 1.485Gbps, and 2.97Gbps, extending transmissions up to 6.2 miles.

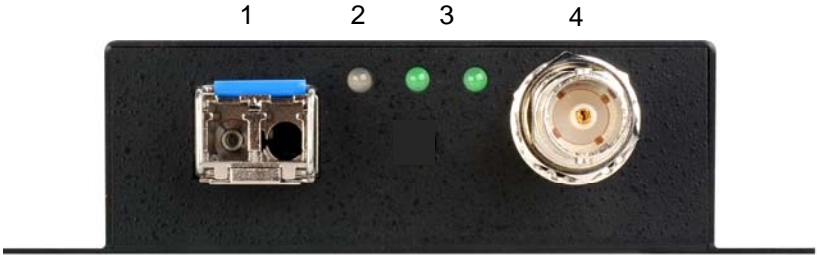
Includes

- 1 Transmitter and 12VDC/1A Power Supply
- 1 Receiver and 12VDC/1A Power Supply
- 2 LC Singlemode SFP Modules

Specifications	
SDI Format	3G-SDI, HD-SDI, SD-SDI
SDI Supported Formats	<ul style="list-style-type: none">• HD: 720p/50 & 60, 1080i/50 & 60, 1080p/24, 25, 30, 50 & 60• SD D1 525i, 625i
Auto Reclocking	270Mbps, 1.485Gbps, and 2.97Gbps
Transmission Range	Up to 6.2 miles (10km)
Input	1-SDI (BNC), 1-Fiber
Output	1-SDI (BNC), 1-Fiber
Auto Detection	3G/HD/SD-SDI
Cable Equalization	<ul style="list-style-type: none">• 3G: 120m of RG6/100m of RG59• HD: 200m of RG6/140m of RG59• SD: 400m of RG6/280m of RG59
Audio Support	Up to 8 channels, 24bit, 48KHz
Input Power	7.5-15VDC
Dimensions (LxWxH)	4.1x2.5x1.0in / 104x63.3x26mm
Weight	Weight 1 lb/0.45 kg

OMX-3GSDI-FIBER Features

Transmitter Front Panel



- 1 SFP Module
- 2 LED Power Indicator
- 3 LED Indicators Function
 - ○ No Signal/Unlock
 - ● SD
 - ○ HD
 - ● 3G
- 4 Relocked SDI Video Output

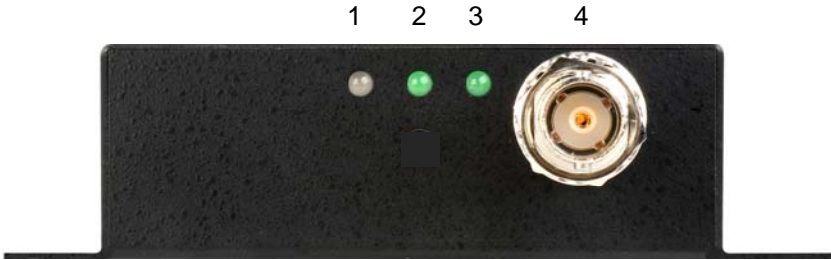
Transmitter Rear Panel



- 1 SDI Video Input
- 2 12VDC Power Input

OMX-3GSDI-FIBER Features

Receiver Front Panel



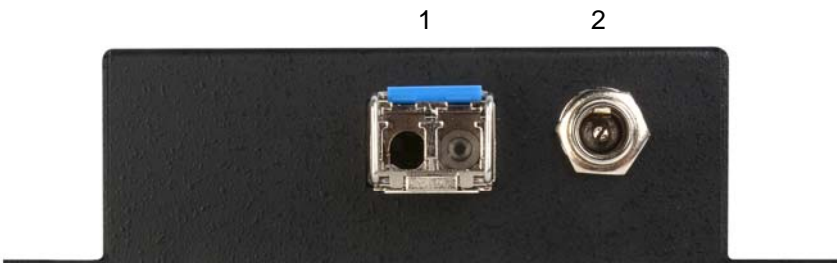
1 LED Power Indicator

2 LED Indicators Function

- ○ No Signal/Unlock
- ● SD
- ○ HD
- ● 3G

4 Reclocked SDI Video Output

Receiver Rear Panel



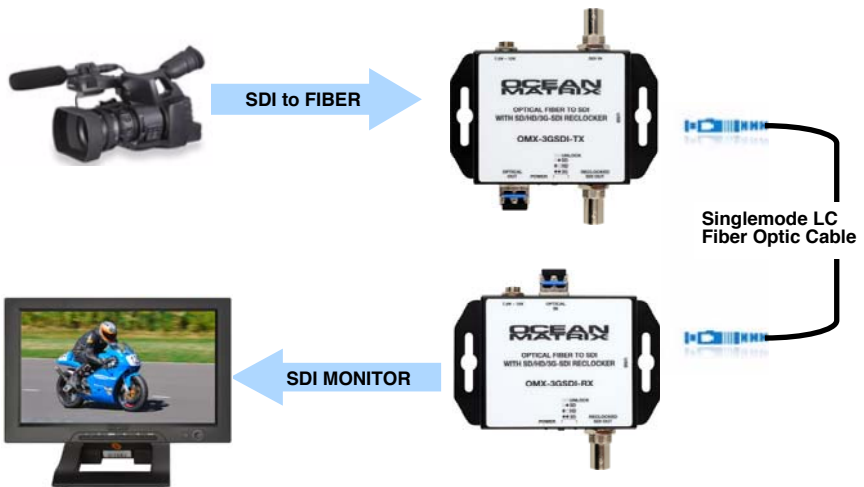
1 SFP Module

2 12VDC Power Input

OMX-3GSDI-FIBER

Installation

1. Connect the video source to the SDI video input (BNC) on the Transmitter
2. Connect SDI equipment or monitor to the SDI video output (BNC) on the Receiver.
3. Connect the Transmitter output and Receiver input with a singlemode LC fiber optic cable.
4. Connect power supplies.





SAFETY PRECAUTIONS



1. To prevent fire or shock hazard, do not expose this equipment to high humidity and/or dust. Do not use in an unprotected outdoor installation nor any area classified as overly damp or wet.
2. The temperature for installation should be kept between 32°F to 140°F (0°C to 60°C). Avoid direct sunlight exposure or extreme changes of temperature over a short period of time.
3. Do not disassemble the unit or place it on an unstable base.
4. Do not drop the unit and avoid heavy impact.
5. This unit should not be permanently installed unless proper ventilation is provided. Any enclosure openings must not be blocked or covered as they protect the unit from overheating.
6. Before cleaning, turn off the power and unplug the unit from all connections. Use a damp cloth. Do not use liquid cleaners nor aerosol cleaners.
7. Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
8. Enclosure entry is dangerous. Never push objects of any kind, including liquids, into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
9. Do not attempt to open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
10. There are no user-serviceable parts inside the unit. If the unit requires service contact your authorized dealer, or an authorized repair service company.

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