

METRIC
INDUSTRIAL

3G/HD/SD-SDI Optical Mini-Extender



INTRODUCTION

3G-SDI/HD-SDI/SD-SDI mini extender fiber optic transmission system that transmits one 3G-SDI, HD-SDI, SD-SDI high definition digital video or one DVB-ASI stream through one single mode or multimode fiber supporting SMPTE424N, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI) standards. With its advanced digital fiber optic transmission technology, there are no adjustments necessary, simple to set up and easy to operate. The SDI mini extender series uses 5V power supply with low power consumption.

FEATURES

- 3G-SDI/HD-SDI/SD-SDI signal auto recognition, no manual selection necessary
- Transmission distance up to 120km
- CWDM technology to allow up to 16(18) channels to transmit over one fiber
- Compliant with SMPTE424N, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M, SMPTE344N
- Compliant with DVB-ASI(EN50083-9)
- Convenient instruction of LED status. Fiber link indicator, power.
- PCB board is environmentally friendly (Pb-free)
- PCB board with multilayer design to ensure stable and reliable signal transmission

TECHNICAL SPECIFICATION

SDI input	
Video standard	SMPTE424N, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M (SDTI)
Signal standard	SD-SDI(270Mbps), HD-SDI(1.485Gbps), 3G-SDI(2.97Gbps)
Resolution	10 Bit
Signal level	<380mVp-p
Impedance	75Ω
Connector	SMB

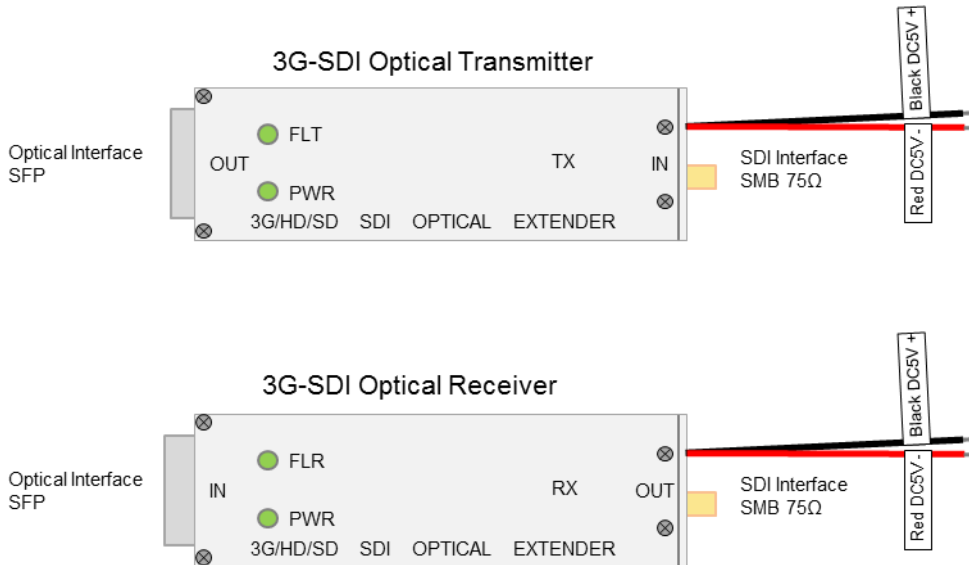
SDI output	
Signal level	800mVp-p±10%
Rise/Fall time	<0.8ns
HD-SDI Jitter	<0.2UI(134ps)@100kHz, <1.0UI(673ps)@10Hz
SDI Jitter	<0.2UI(740ps)@10Hz, 0.2UI(740ps)@1kHz
Impedance	75Ω
Connector	SMB

Optical Interface	
SFP	Simplex LC, 3,125Gbps. ≤120km transmission distance
Standard SM wavelength	1310nm, 1550nm
CWDM wavelength	1270~1610nm, 20nm grid according ITU-T
Temperature range	0~70°C

Physical specifications

Dimensions (HxDxW)	19,9x21x68mm (19,9x21x57mm=housing only)
Temperature range	0~70°C
Power	5VDC, 1A (connection to 2x TFPE wires Black & Red, L=300mm) ¹⁾
Humidity	0~95% RH Non-condensing
Impedance	75Ω
Connector	SMB

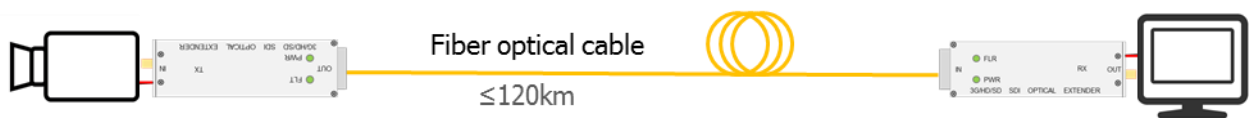
¹⁾ Available with standard power cable and connector on request



Mark! Sketch is not to scale

Traffic Indicator	Color LED	Status	Description
FLR	Green	On	Fiber link receive active
		Off	Fiber link receive inactive
FLT	Green	On	Fiber link transmit active
		Off	Fiber link transmit inactive
PWR	Green	On	Power active
		Off	Power inactive

Typical application:

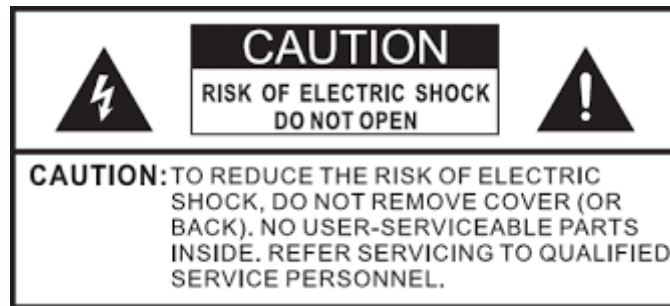


ORDERING INFORMATION

Part no.	Description
A-3GSDI-24-S00GC-RX	3G SDI CWDM Mini-Extender receiver, SMB SDI, 1270~1610nm SFP LC -24dBm
A-3GSDI-24-SxxGC-TX	3G SDI CWDM Mini-Extender transmitter, SMB SDI, 1xx0nm SFP LC 0~+5dBm

xx: 27=1270nm, 29=1290nm, 31=1310.....61=1610nm

Mini-Extenders with other wavelengths and power budget are available on request



Disposal of old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems).

This symbol on the product or its packaging indicated that this product should not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office or your household waste disposal service.