

## 3G-SDI CWDM 1270~1610nm 40km Digital Video SFP Optical Transceiver (MSA)

### Features

- ▶ SMPTE 297-2006 Compatible Features
- ▶ Speed from 50 Mbps to 2.97 Gbps
- ▶ Distance up to 40km for 3G-SDI
- ▶ Support Video Pathological Patterns for SD-SDI, HD-SDI and 3G-SDI
- ▶ 18 Wavelength CWDM DFB Transmitter
- ▶ Hot-pluggable SFP footprint
- ▶ SFP MSA compliant
- ▶ Digital Diagnostic functions available through the I2C interface
- ▶ Single +3.3V power supply
- ▶ Low Power Consumption
- ▶ Operating case temperature: 0 to +70°C
- ▶ RoHS compliant and Lead-Free

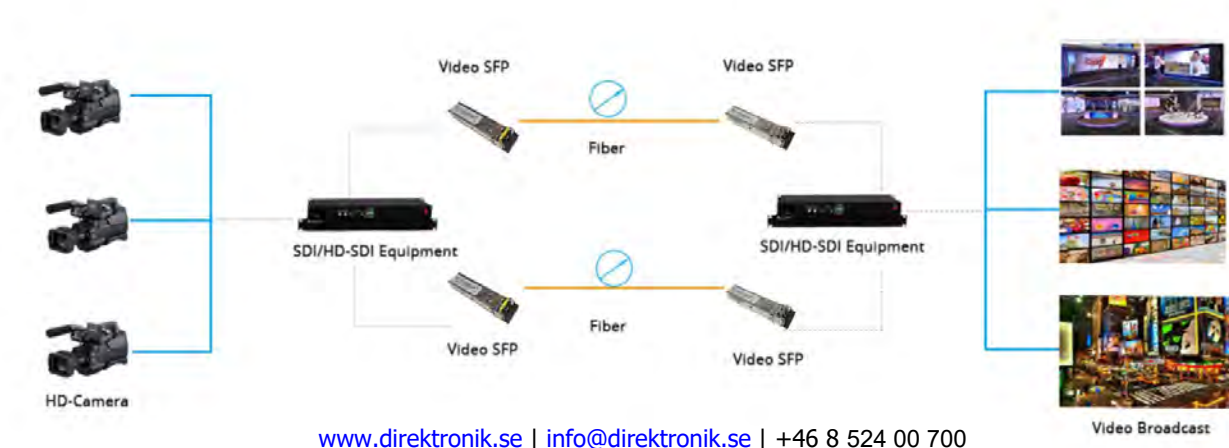


### Overview

These CWDM-SFP3G-XX40 modules is high performance, cost-effective 3G-SDI CWDM optical transceiver modules for long reach video transmission application over single mode fiber (SMF). It provides the data rates from 50Mbps to 2.97Gbps and is specifically designed for robust performance in the presence of SDI pathological patterns for SMPTE 259M, SMPTE 344M, SMPTE 292M, and SMPTE 424M serial rates. It provides the maximum transmission distance of 40km over single mode fiber at 3Gbps pathological signals. It is available for all 18 CWDM channels from 1270nm to 1610nm wavelengths, this helps the customer to increase the bandwidth of an existing video optical infrastructure without adding new fiber strands. The CWDM-SFP3G-XX40 modules is MSA compliant.

This 3G SDI CWDM video SFP module is Class I Laser products per FDA/CDRH and IEC-60825 standards.

### Application



## Technical Indexes

Standards:	INF-8074i SFP (Small Formfactor Pluggable) Transceiver
	SFF-8472 Diagnostic Monitoring Interface for Transceiver
	SMPTE 259M-2008 SDTV Digital Signal/Data Serial Digital Interface (SD-SDI)
	SMPTE 292M-2008 1.5 Gbps Signal/Data Serial Interface (HD-SDI)
	SMPTE 344M-2000 540 Mbps Serial Digital Interface
	SMPTE 424M-2006 3Gbps Signal/Data Serial Interface (3G-SDI)
Part Number	See last page
Form Factor	Video SFP Transceiver
Data Rate	3 Gb/s
Wavelength	1270~1610nm
Fiber Type	SMF
Max. Distance	40 km
Optical Components	DFB/PIN
Transmitter Power	-2 ~3 dBm
Extinction Ratio	>6 dB
Receiver Sensitivity	< -20 dBm
Receiver Overload	>-3 dBm
Connector	Duplex LC
Digital Diagnostic Monitoring (DDM)	Support as default
Weight	0.025Kg
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Application	SMPTE 424M (2.97Gb/s)
	SMPTE 292M (1.485Gb/s)
	SMPTE 259M (270/360Mb/s)
	3G-SDI/HD-SDI/SD-SDI Fiber Converter
	High-density digital video routers & switches
	Broadcast cameras, HD Camera or Monitor System
MTBF	> 200,000 hrs

Model	Description
20102852	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1270nm, 40km, LC, DDMI, MSA
20102853	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1290nm, 40km, LC, DDMI, MSA
20102854	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1310nm, 40km, LC, DDMI, MSA
20102855	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1330nm, 40km, LC, DDMI, MSA
20102857	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1350nm, 40km, LC, DDMI, MSA
20102858	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1370nm, 40km, LC, DDMI, MSA
20102859	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1390nm, 40km, LC, DDMI, MSA
20102860	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1410nm, 40km, LC, DDMI, MSA
20102861	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1430nm, 40km, LC, DDMI, MSA
20102862	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1450nm, 40km, LC, DDMI, MSA
20102863	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1470nm, 40km, LC, DDMI, MSA
20102864	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1490nm, 40km, LC, DDMI, MSA
20102865	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1510nm, 40km, LC, DDMI, MSA
20102866	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1530nm, 40km, LC, DDMI, MSA
20102867	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1550nm, 40km, LC, DDMI, MSA
20102868	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1570nm, 40km, LC, DDMI, MSA
20102869	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1590nm, 40km, LC, DDMI, MSA
20102870	3Gb/s SDI CWDM SFP Video Optical Transceiver, 1610nm, 40km, LC, DDMI, MSA