

FEATURES

- ▷ Operating Data Rate up to 2.97Gbps
- ▷ 18dB guaranteed Link budget
- ▷ 18 CWDM center wavelengths for choice
- ▷ Compliant with SMPTE 424M/297M
- ▷ Compliant with SMPTE 259M/292M/297M
- ▷ RoHS-6 Compliant
- ▷ Handles Pathological Test Matrix Pattern
- ▷ Digital Diagnostic Monitoring Interface Compliant with SFF-8472 MSA Specification
- ▷ 100Ω Differential AC Coupled CML Outputs
- ▷ Die Cast Metal Housing
- ▷ Hot pluggable SFP Footprint LC Connector Interface
- ▷ Compliant with SFP MSA
- ▷ Single 3.3V supply
- ▷ Operating Case Temperature 0°C~+70°C

APPLICATIONS

- ▷ SMPTE 297-2006 Compliant
- ▷ Electrical-to-Optical Interfaces
- ▷ 3G Video System



The Multidyne series SFPs are high performance modules for duplex video transmission application over single mode fiber. These transceivers are designed to transmit/receive data rates from 270Mbps to 2.97Gbps, which are compliant with the following standards:

- SMPTE 424M/297M (1080p -- 2.97Gbps)
- SMPTE 292M/297M (HDTV -- 1.485Gbps)
- SMPTE 259M/297M (SDTV -- 270/360Mbps)

The transmitter section is a Class 1 Laser compliant with FDA Radiation Performance Standards, 21 CFR Subchapter J. It is also Class 1 Laser compliant according to International Safety

Standard IEC60825. With an internal facing angle polished fiber stub, standard single mode optical patch cord with Standard Polished Connector (SPC) is required.

The receiver section is provided with an internal facing angle polished fiber stub. Standard single mode optical patch cord with Standard Polished Connector (SPC) is required.

The transceiver is hot pluggable with the SFP 20-pin connector.

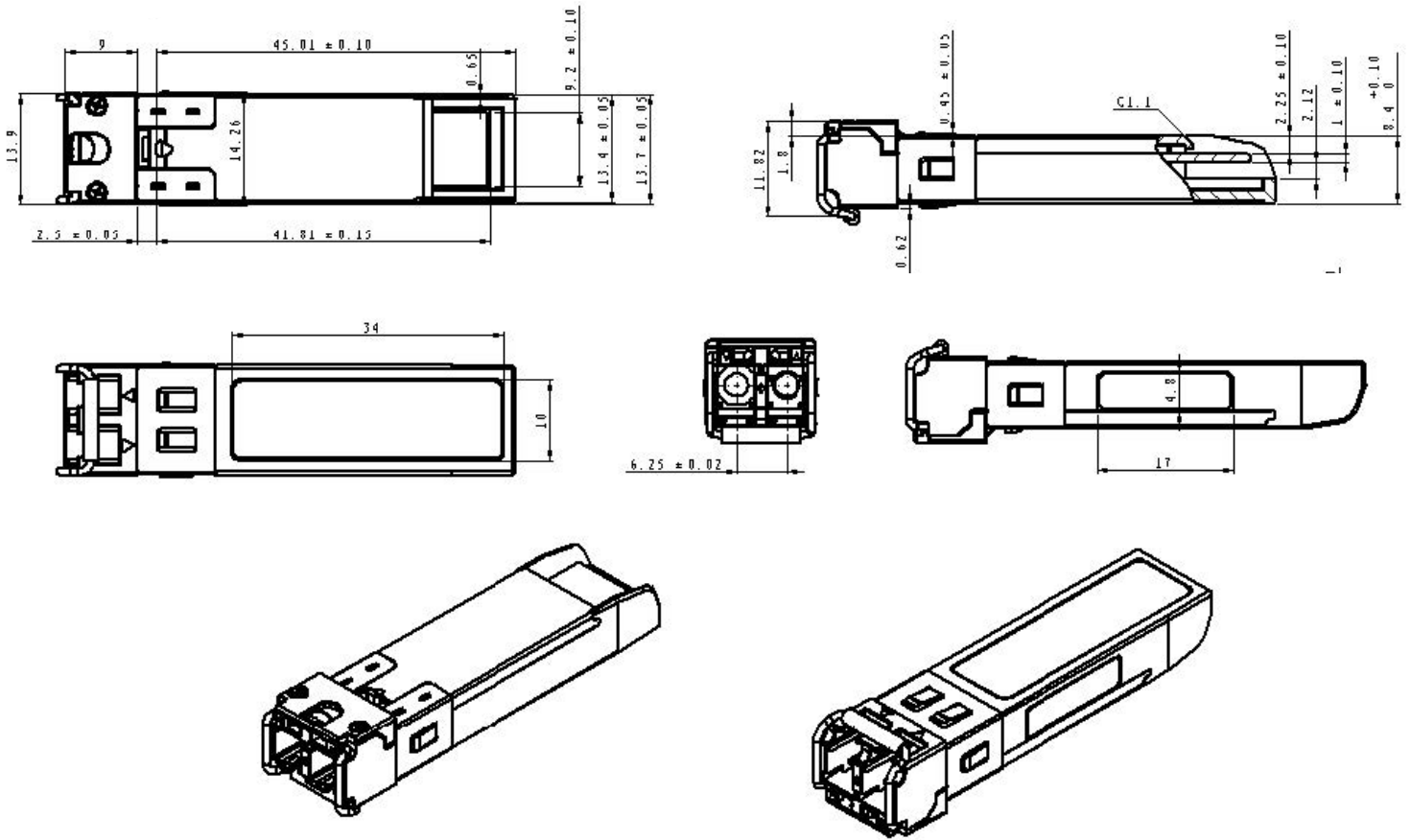
The transceiver provides extensive operational status monitoring through an I2C interface as defined by the SFF-8472 MSA specification.

ORDERING INFORMATION

3G-SDI Single Channel Transmitters/Receiver	
MDOPT00820	SFP, 3G Video Single TX , Non-MSA, 1310nm
MDOPT00840	SFP, 3G Video CWDM Single RX , Non-MSA
MDOPT00850	SFP, 3G Video CWDM Single TX , Non-MSA, 1271nm
MDOPT00860	SFP, 3G Video CWDM Single TX , Non-MSA, 1291nm
MDOPT00870	SFP, 3G Video CWDM Single TX , Non-MSA, 1311nm
MDOPT00880	SFP, 3G Video CWDM Single TX , Non-MSA, 1331nm
MDOPT00890	SFP, 3G Video CWDM Single TX , Non-MSA, 1351nm
MDOPT00900	SFP, 3G Video CWDM Single TX , Non-MSA, 1371nm
MDOPT00910	SFP, 3G Video CWDM Single TX , Non-MSA, 1391nm
MDOPT00920	SFP, 3G Video CWDM Single TX , Non-MSA, 1411nm
MDOPT00930	SFP, 3G Video CWDM Single TX , Non-MSA, 1431nm
MDOPT00940	SFP, 3G Video CWDM Single TX , Non-MSA, 1451nm
MDOPT00950	SFP, 3G Video CWDM Single TX , Non-MSA, 1471nm
MDOPT00960	SFP, 3G Video CWDM Single TX , Non-MSA, 1491nm
MDOPT00970	SFP, 3G Video CWDM Single TX , Non-MSA, 1511nm
MDOPT00980	SFP, 3G Video CWDM Single TX , Non-MSA, 1531nm
MDOPT00990	SFP, 3G Video CWDM Single TX , Non-MSA, 1551nm
MDOPT01000	SFP, 3G Video CWDM Single TX , Non-MSA, 1571nm
MDOPT01010	SFP, 3G Video CWDM Single TX , Non-MSA, 1591nm
MDOPT01020	SFP, 3G Video CWDM Single TX , Non-MSA, 1611nm
3G-SDI Dual Transmitters/Receiver	
DOPT01230	SFP, 3G Non-MSA, Dual TX, 1310nm
MDOPT01240	SFP, 3G, 2RX
MDOPT01290	SFP, 3G Non-MSA, CWDM Dual TX, 1270 & 1290
MDOPT01300	SFP, 3G Non-MSA, CWDM Dual TX, 1310 & 1330
MDOPT01310	SFP, 3G Non-MSA, CWDM Dual TX, 1350 & 1410

MDOPT01330	SFP, 3G Non-MSA, CWDM Dual TX, 1370 & 1390
MDOPT01320	SFP, 3G Non-MSA, CWDM Dual TX, 1430 & 1450
MDOPT01250	SFP, 3G Non-MSA, CWDM Dual TX, 1470 & 1490
MDOPT01260	SFP, 3G Non-MSA, CWDM Dual TX, 1510 & 1530
MDOPT01270	SFP, 3G Non-MSA, CWDM Dual TX, 1550 & 1570
MDOPT01280	SFP, 3G Non-MSA, CWDM Dual TX, 1590 & 1610
3G-SDI Transceivers	
MDOPT01030	SFP, 3G Video Transceiver, MSA, 1310nm
MDOPT01040	SFP, 3G Video CWDM Transceiver, MSA, 1270nm
MDOPT01050	SFP, 3G Video CWDM Transceiver, MSA, 1290nm
MDOPT01060	SFP, 3G Video CWDM Transceiver, MSA, 1310nm
MDOPT01070	SFP, 3G Video CWDM Transceiver, MSA, 1330nm
MDOPT01080	SFP, 3G Video CWDM Transceiver, MSA, 1350nm
MDOPT01090	SFP, 3G Video CWDM Transceiver, MSA, 1370nm
MDOPT01100	SFP, 3G Video CWDM Transceiver, MSA, 1390nm
MDOPT01110	SFP, 3G Video CWDM Transceiver, MSA, 1410nm
MDOPT01120	SFP, 3G Video CWDM Transceiver, MSA, 1430nm
MDOPT01130	SFP, 3G Video CWDM Transceiver, MSA, 1450nm
MDOPT01140	SFP, 3G Video CWDM Transceiver, MSA, 1470nm
MDOPT01150	SFP, 3G Video CWDM Transceiver, MSA, 1490nm
MDOPT01160	SFP, 3G Video CWDM Transceiver, MSA, 1510nm
MDOPT01170	SFP, 3G Video CWDM Transceiver, MSA, 1530nm
MDOPT01180	SFP, 3G Video CWDM Transceiver, MSA, 1550nm
MDOPT01190	SFP, 3G Video CWDM Transceiver, MSA, 1570nm
MDOPT01200	SFP, 3G Video CWDM Transceiver, MSA, 1590nm
MDOPT01210	SFP, 3G Video CWDM Transceiver, MSA, 1610nm

TECHNICAL SPECIFICATIONS



Feature	Standard	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883G Method 3015.7	Class 1C (>1000 V)
Electrostatic Discharge to the enclosure	EN 55024:1998+A1+A2 IEC-61000-4-2 GR-1089-CORE	Compatible with standards
Electromagnetic Interference (EMI)	FCC Part 15 Class B EN55022:2006 CISPR 22B :2006 VCCI Class B	Compatible with standards Noise frequency range: 30MHz to 6GHz. Good system EMI design practice required to achieve Class B margins. System margins are dependent on customer host board and chassis design.
Immunity	EN 55024:1998+A1+A2 IEC 61000-4-3	Compatible with standards. 1KHz sine-wave, 80% AM, from 80MHz to 1GHz. No effect on transmitter/receiver performance is detectable between these limits.
Component Recognition	UL and CUL	UL file E317337
RoHS6	2002/95/EC 4.1&4.2 2005/747/EC 5&7&13	Compliant with standards