

**OSD2010 FIBER MODE CONVERTER**

**APPLICATIONS**

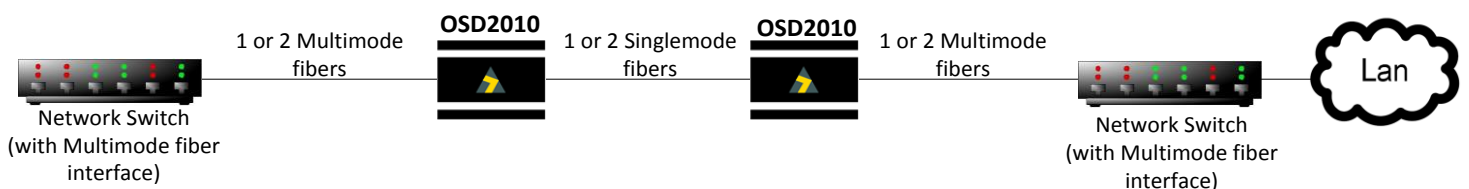
- ▲ Any network utilising a mix of singlemode and multimode fiber
- ▲ Adding CWDM to an existing fiber network
- ▲ Extending optical transmission distances by operating as an optical repeater
- ▲ Networks using Ethernet devices such as cameras, intercoms, access control, telephones, etc



**FEATURES AND BENEFITS**

- ▲ Protocol transparent SFP to SFP mode converter
- ▲ Operates with multimode or singlemode fiber simply by selecting the SFP used
- ▲ Operates with SFPs of up to 10Gbps
- ▲ Plug and play operation: no user settings are needed
- ▲ Works with SDH, Ethernet, CPRI, and Fiber Channel
- ▲ Can be used with 1 or 2 fibers on either singlemode or multimode fibers over a variety of link budgets
- ▲ Provides wavelength conversion for CWDM or DWDM applications
- ▲ Powered by non-critical 10 to 36VDC or 24VAC supplies
- ▲ Dual power supply inputs
- ▲ Operates over the temperature range of -20 to +75°C
- ▲ Alarm outputs for loss of input power and for laser failure
- ▲ SFP modules sold separately

**TYPICAL SYSTEM APPLICATION**



**ORDERING INFORMATION**

OSD2010 SFP Module      Industrial Fiber Mode Converter  
 See OSD SFP datasheets #102100XX (100Mbps), #1021000XX (1Gbps) or 10210GXX (10Gbps)



# SPECIFICATIONS

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## OPTICAL

|                         |   |
|-------------------------|---|
| Optical Data Interface  | Protocol transparent  |
| Optical Data Rate       | 10Mbps to 10Gbps  |
| Optical Port Connectors | SFP   |
| SFP Options             | Short haul, long haul, CWDM, single fiber operation, etc.<br>Please consult OSD SFP datasheets or contact OSD                           |
| Alarms                  | Four:<br><br>SFP #1 Laser fail<br>SFP #1 Loss of Received Optical Signal<br>SFP #2 Laser fail<br>SFP #2 Loss of Received Optical Signal |
| Alarm Interface         | 4 open drain outputs rated at 500mA @ 24V maximum:<br>Short to ground when OK<br>Open circuit when not OK or power off                  |

## PHYSICAL

|                             |   |
|-----------------------------|---|
| Operating Temperature Range | -20 to +75°C  |
| Relative Humidity           | 0 to 95% non-condensing                                   |
| Power Requirements          | +10V to +36V DC or 22 to 28VAC @ 4VA                      |
| Power Connector             | 4 way 5.08mm terminal block                               |
| Alarm Connector             | 6 way 3.5mm terminal block                                |
| Indicators                  | 2x Laser OK/Not OK<br>2x Received Optical Power OK/Not OK |
| Dimensions of Module (mm)   | 60W x 94D x 26H   |
| Weight of Module (kg)       | 0.4   |

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