

OVL-MC110BSx

10/100Mbps WDM Fast Ethernet Media Converter

■ Description

The **OPTOVALLEY's** Ethernet Media Converter Series complies with IEEE802.3 Standards. The **OVL-MC110BSx** is designed to convert data signal between 10/100Base-Tx and 100Base-Fx fast Ethernet.

The **OVL-MC110BSx** supports one 10/100Base-Tx port over CAT5 twisted pair cable and one 100Base-Fx interface to connection with optical fiber module to apply in 10/100Base-Tx to 100Base-Fx converter application.

It is compact, cost-effective, low dissipative, high reliable and stable.



■ Features

- Including WDM Bi-directional transceiver using 1310nm/1550nm transmitting and receiving (x=3: 1310Tx/1550Rx , x=5:1550Tx/1310Rx)
- ISO/IEC 8802.3, IEEE 802.3 and TIA/EIA-785 I including Auto-Negotiation on both twisted pair and fiber optics.
- Low latency in 10Mbps path for applicable VOIP (Max. 100ns in Tx to Fx convert)
- Support one RJ-45 for 10/100Base-Tx connection and one SC connector for 100Base-Fx connection
- Support transmit, receive/link, full/half duplex LED
- Plug and Play.
- Easy installation.

■ Specifications

- Standard : Support 10Base-T, 100Base-Tx , 100Base-Fx and IEEE802.3 spec.
- Interface : SC fiber connector using single mode / RJ-45 connector using UTP 100-ohm Cat. 5 Cable
- Operating Temperature & Humidity : 0 ~ 50°C, 10 ~ 90%
- External Power Supply Input Rate : 100(220)V, 50 ~ 60 Hz
Output Rate : 3.3VDC, 1A (Option 5V)
- EMI & Safety : FCC Class A, CE
- Package Demension : 94*69.4*26(mm)

Parameter	Specifications
Standard	Support 10Base-T, 100Base-Tx , 100Base-Fx and IEEE802.3 spec
Interface	Optical: WDM Bi-directional optical interface for SMF Electrical:RJ-45 port for UTP cat.5 cable
Distance	Utp cable: Max.100m at 10/100base TX SMF cable :Max.25Km at 100base FX
Operating Temperature	0℃ to 50℃
Storage temperature	-40℃ to 85℃
humidity	10% to 90%
External power adapter	Input Rate : 100(220)V, 50 ~ 60 Hz Output Rate : 3.3VDC, 1A (Option 5V)
Package Demension	94*69.4*26(mm)

optical characteristics

Transmitter Specifications						
Parameter	Symbol	Min	Typ	Max	Units	Notes
Output Center Wavelength(TX)	λ_c	1261	1310	1360	nm	Tx1310
		1520	1550	1580	nm	Tx1550
Output Spectral Width(RMS)	$\Delta\lambda$			7.7	nm	
Optical Power	Po	-15	-11	-8	dBm	
Extinction Ratio	ER	8.2			dB	
Output Eye	Compliant with belcore TR-NWT-000253 and ITU-T G.957					
Receiver Specifications						
Detection Center Wavelength(RX)	λ_{DC}	1261	1310	1360	nm	Rx1310
		1520	1550	1580	nm	Rx1550
Optical Sensitivity	S			-30	dBm	