



# 10-100-1000 Ethernet Media Converter Series

USER  
MANUAL

## INSTALLATION

1. Turn on the power supply of the converter.
2. Connect local RX to remote TX via optical fiber when local FPL indicator lights up.
3. Connect local TX to remote RX when both local and remote FRX, and FPL indicators light up.
4. If its a single-fiber converter, connect the optical fiber.
5. Turn on the power supply of the connected Ethernet devices.
6. Installation is completed.

**NOTE:** Single-fiber bidirectional Media Converter has two types:

- Type A: Transmitting wavelength 1310nm, receiving wavelength 1550nm.
- Type B: Transmitting wavelength 1550nm, receiving wavelength 1310nm.

Type A and Type B must be used in pair (i.e. if one end is Type A, then the other end must be Type B)

## CABLES

DMSI recommends using high quality, low loss bend insensitive fiber patch cords with media converter solutions. Bend insensitive fiber provides a user friendly solution for FTTH applications, and is very forgiving if bent in tight spaces. Recommend LC duplex to LC duplex part numbers are:

For use with 62.5µm OM1: 3131002F2N9xxxM

For use with 50µm OM2/3: 3131002G2A9xxxM

For use with SM OS2: 3131002Y2Y9xxxM

Replace xxx with required length in meters (three digits).

DMSI Stand-Alone Media Converter,  
10/100/1000mbps

You can also find the manual online at:  
[www.dmsimfg.com/StandAloneManual](http://www.dmsimfg.com/StandAloneManual)

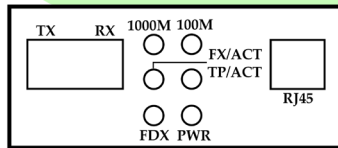


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## LED DESCRIPTION



LED INDICATOR LAMP	STATUS	EXPLANATION
FX	On	FX connection is good.
	Blink	FX data is transmitting.
Link/Act	On	Connection status display for electric link. "ON" indicates that electric link is in correct connection.
	Blink	Active status display of fiber link "Blink" indicates packet goes through Tx end.
FDX	On	Transceiver works in the full duplex mode.
	Off	Transceiver works in the half duplex mode.
PWR	On	Power is on and normal.
100	On	Lit when TP speed is 100Mbps.
1000	On	FX speed is 1000Mbps.
	Off	FX speed is 100Mbps.

## DIP SWITCH SETTING

There are 10/100/1000M Media Converter with DIP switch set and without DIP switch set. The following setting is only for 10/100/1000M Media Converter with DIP switch set.

SW1	ON	Enable LFP
	OFF	Disable LFP
SW2	ON	Cut-through(9K)
	OFF	Store-and-Forward
SW3	ON	traffic control on
	OFF	traffic control off
SW4	ON	FX speed is 100Mbps.
	OFF	FX speed is 1000Mbps.

## GENERAL TROUBLESHOOTING

FAILURE	REASONS	CHECK	TROUBLESHOOTING
POW OFF	Power supply	Check whether there is power input. Check whether the power switch is turned on.	Examine the external power supply or turn on the power switch.
FX OFF	Optical port fault	Check whether the fiber link is broken. Check whether the optical consumption is over-size. Check whether the connection is correct.	Examine the fiber link. Correct the connection.
TX LINK/ACT OFF	TP port fault	Check whether the UTP is broken. Check whether the connection type is matched. Check whether the rate is matched.	Examine the UTP. Correct the rate.

## TECHNICAL SPECIFICATIONS

Standard Protocol	IEEE 802.1q standard	
	IEEE 802.1p QoS	
	IEEE802.1d Spanning Tree	
	IEEE802.3 1000 Base-T standard	
Operation Mode	Full/Half duplex mode	
Connectors	UTP:RJ-45	
	Fiber: SC/ST/FC/LC	
Bandwidth	RJ 45 Port: 10/100/1000Mbps	
	Optical Port: 125Mbps	
Emission / Safety	FCC Part 15, Class A, RoHS and CE Mark	
Environmental Parameters	Work Temperature:	0°C~50°C (32 °F ~ 122°F)
	Storage Temperature:	-40°C~70°C (-40°F ~ 158°F)
	Humidity:	5%~90% non-condensing
Cable	UTP Cable:	Cat 5e, 6, 6A UTP or STP cable
	Single-mode:	8.3/125μm, 8.7/125μm, 9/125μm, 10/125μm (the max distance up to 20 -120km)
	Multimode:	50/125μm, 62.5/125μm (the max distance up to 2km or 5km)
Dimensions (mm)	95mm(L) x 71.5mm(W) x25.4mm(H)	
Warranty	3 years	
Mean Time Between Failure	114,000 hours	
TAA Compliant	Yes	