



# Media Converter Multi Mode to Single Mode



## User Manual

DN-82024 • DN-82124 • DN-82133

## Overview

Networks often require conversion from multimode (MM) to single-mode (SM) fiber, which supports longer distances than MM fiber. Mode conversion is typically required when:

Network distance requirements exceed the limit of MM fiber. Lower cost legacy equipment uses MM ports, and connectivity is required to SM equipment. A building has MM equipment, while the connection to the Service Provider is SM. Or MM equipment is in a campus building and SM fiber is used between buildings

## Feature

- Supporting IEEE802.3z 100/1000Base-SX/LX standards
- Supporting full-duplex/half-duplex transmission mode
- Supporting conversion between multi-mode fiber and single mode fiber
- Supporting direct and transparent transmission of packets at different lengths

## Package Content

1x Media mode converter  
1x User manual  
1x Power adapter

## Specification

|                       |            | DN-82133                                                                                                          | DN-82124    | DN-82024    |
|-----------------------|------------|-------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| Standard              |            | IEEE 802.3                                                                                                        | IEEE 802.3  | IEEE 802.3  |
| Speed                 |            | 100/1000Base-FX                                                                                                   | 1000Base-FX | 100Base-FX  |
| LED                   |            | Power x2 LINK A, LINK B                                                                                           |             |             |
| Fiber A               | Mode       | SFP slot                                                                                                          | Multi-Mode  | Multi-Mode  |
|                       | Connector  |                                                                                                                   | SC          | SC          |
|                       | Wavelength |                                                                                                                   | 850nm       | 1310nm      |
|                       | Distance   |                                                                                                                   | 550m        | 2 km        |
| Fiber B               | Mode       | SFP slot                                                                                                          | Single Mode | Single Mode |
|                       | Connector  |                                                                                                                   | SC          | SC          |
|                       | Wavelength |                                                                                                                   | 1310nm      | 1310nm      |
|                       | Distance   |                                                                                                                   | 20 km       | 20 km       |
| Operating Temperature |            | 0°C~70°C                                                                                                          |             |             |
| Operating Humidity    |            | 5%~90%                                                                                                            |             |             |
| Power                 |            | DC 5V1A                                                                                                           |             |             |
| Dimension             |            | 95 mm (H)*70 mm (W)*26 mm (D)                                                                                     |             |             |
| Transmission Fiber    |            | <b>Multi-mode:</b><br>50/125, 62.5/125 or 100/140um<br><b>Single mode:</b><br>8.3/125, 8.7/125, 9/125 or 10/125um |             |             |

## LINK/LED Description

| LEDs   | State    | Indications                                                             |
|--------|----------|-------------------------------------------------------------------------|
| POWER  | Solid on | Power feeding in                                                        |
|        | Off      | No power                                                                |
| LINK A | Solid on | Port A multimode fiber signal detects: a valid connection established.  |
|        | Off      | Multimode fiber link failed.                                            |
| LINK B | Solid on | Port B single mode fiber signal detect: a valid connection established. |
|        | Off      | Single mode fiber link failed                                           |

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