

## MDC100 Transceiver Product



### Product Description

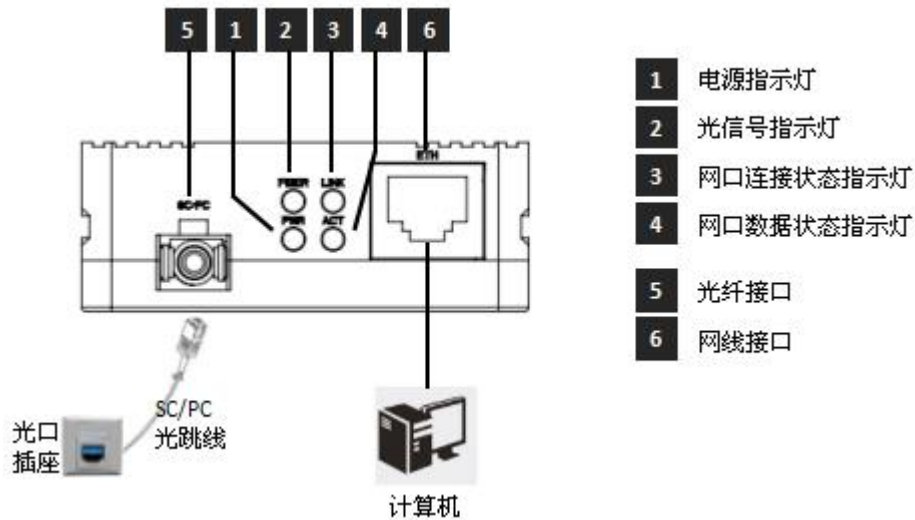
MDC100 is 100M Ethernet fiber transceiver researched independently by our own company which can make the 100Base-TX twisted pair electrical signal and 100Base-FX fiber signal transform each other. MDC100 transceiver can not only be used as independent equipment but also can be installed on the framework using slideway design as plug-in module for central apparatus room's network. The transceiver expands the transmitting distance of the internet from 100m to 150km. Its typical application is Ethernet distance interconnection. It can be connected with the switch which need not be configured. The equipment enclosure be used a personalized and multi-contour cooling vents design. It have the features that simplicity, fashion, steady, impact resistance, high-temperature, good heat dissipation effect using the recycled materials, providing the safer online support for user.

### Function Features

- Supporting IEEE802.3u.100BASE-T and 100BASE-FL protocol
- Supporting 100M full-duplex mode
- SMF, transmission distance up to 30km
- Automatic identification MD1/MD1-X crossed lines and parallel lines
- Central Office can be used alone, rack and support heat plug

- The complete status of the led indication
- The less heat of the machine, stable and reliable performance

## Product Interface And LED Definition



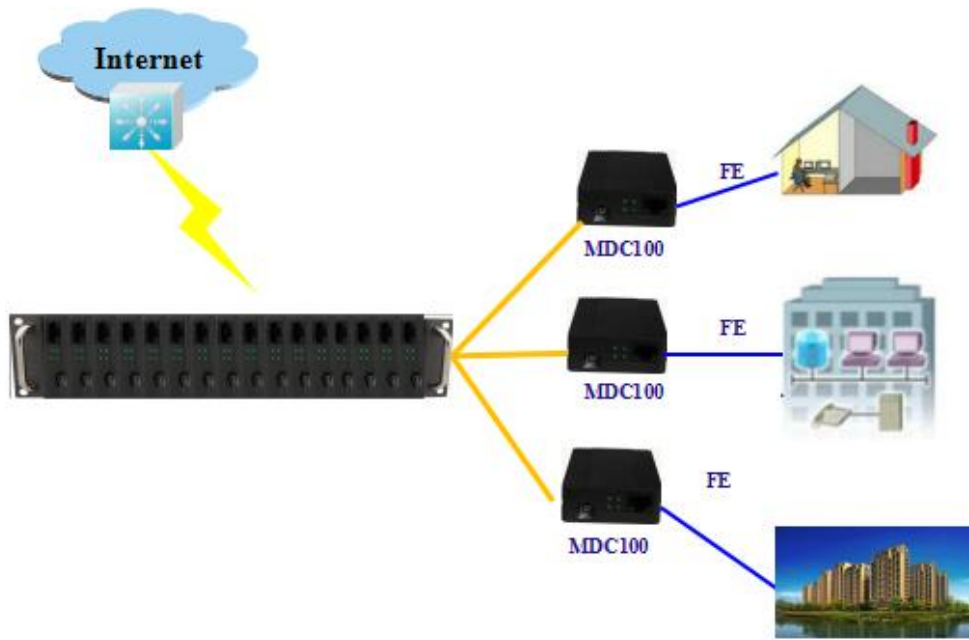
| Indicator |       |                               | Description  |
|-----------|-------|-------------------------------|--|
| 1         | PWR   | Power indicator               | <b>On:</b> Equipment power supply normally<br><b>Off:</b> Equipment power supply abnormally  |
| 2         | Fiber | Optical signal indicator      | <b>On:</b> Port connected properly but no data transfer<br><b>Blinking:</b> Port connected properly and data transfer<br><b>Off:</b> Port not connected or port connected abnormally   |
| 3         | Link  | Network port status indicator | <b>On:</b> Port connected properly but no data transfer<br><b>Off:</b> Port not connected or port connected abnormally   |
| 4         | ACT   | Network port status indicator | <b>On:</b> Port connected properly but no data transfer<br><b>Blinking:</b> Port connected properly and data transfer<br><b>Off:</b> ports Port connected or port connected abnormally |

## Specification

| Items                            | parameter                     | Specifications  |
|----------------------------------|-------------------------------|---|
| <b>Interface</b>                 | Optical interface             | Symmetric 100Mbps upstream/downstream<br>SC/PC single-mode fiber<br>Transmission distance 30KM  |
|                                  | User interface                | 1*FE Ethernet ports<br>Full Duplex<br>RJ45 , Auto-MDI/MDI-X<br>Transmission distance 100 Meter  |
|                                  | Power interface               | 5V DC input   |
| <b>Performance Specification</b> | Optical performance           | Central office wavelength : Tx 1310nm , Rx 1490nm<br>Remote wavelength:Tx 1550nm , Rx 1310nm<br>Tx Optical Power : -8 ~ -14dBm<br>Rx sensitivity : -36dBm             |
|                                  | Data transmission performance | Packet Loss Ratio : <1*10E-12<br>latency : <1ms   |
| <b>Physical Performance</b>      | Shell                         | Black plastic case  |
|                                  | Dimensions                    | size : 90mm(L) x 60mm(W) x 25mm (H)<br>weight : 0.1kg   |
|                                  | Environment                   | Operating temperature : -10 ~ 60°C<br>Storage temperature : -20 ~ 70°C<br>Operating Humidity : 5% ~ 90% non-condensing<br>Storage Humidity : 10% ~ 90% non-condensing |
| <b>Power</b>                     | Power dissipation             | < 3W  |
|                                  | Power supply                  | DC5V/1A   |

## Application

◇ Business : Broadband Internet 、 Building Network 、 Plot Network



**MDC100 Application View**

## Ordering information

| Product name     | Product type    | Product description  |
|------------------|-----------------|--|
| 100M Transceiver | MC100-B3520B-SC | A 100M TX1310/RX1550 fiber port , transmission distance 30km<br>1*FE Ethernet interface,plastic casing,external power supply adapter |
| 100M Transceiver | MC100-B5320B-SC | A 100M TX1550/RX1310 fiber port,distance 30km<br>1*FE Ethernet interface,plastic casing,external power supply adapter                |