



*Shenzhen Mooncell Electronics Co., Ltd*

## *Peripheral Series*

*STCLED911S20-D*

*Single Mode Dual Fiber Transceiver*



Web: [www.mooncell.com.cn](http://www.mooncell.com.cn)

Skype: [cheersnigel](https://www.skype.com/people/cheersnigel)

ADD: 1st Floor, Comprehensive Building, Baoshi South Road, Shiyan Town,  
Baoan District, Shenzhen, PRC

# Content

1 Product Overview.....	4
Product Introduction.....	4
Product Features.....	1
Product Application Scenarios.....	1
2 Product Parameters.....	2
Dimensions.....	2
Indicator Illustration.....	2
3 Product Specifications.....	4
Specifications.....	4
Precautions.....	4



# Updates History

<i>File Version</i>	<i>Released Date</i>	<i>Updates Records</i>
V3.0	31/03/2020	First Edition (Release)



# 1 Product Overview

## Product Introduction

STCLED911S20-D is a single mode Dual Fiber Transceiver that produced by Mooncell. It could realize the data communication & extension between the network cable and optical fiber cable or between the 1000Base-TX twisted pair and the 1000Base-FX optical cable, so that the sending card the receiving card are no longer limited to the short distance transmission and control of the network cable. Via the Optical Fiber Transceiver, the distance could be extended to 20KM and the plug&play design has made an easy installation. There is no on site adjustment required. All the optical,power interfaces conform to international standards. This product is suitable for using under different circumstances such as the harsh outdoor environment with high or low temperature.

## Product Features

- 1x Network Port,1x Optical fiber Port (Dual fiber)
- Plug-in or Independent DIN Rail/Wall Mounted structure and is suitable for a centralized management of the 2U racks.
- The conversion of the 1000MBase-TX to 1000MBase-FX optical fiber media extends the distance between the sending card and receiving card to 20KM.
- It conforms to the industrial level 4 EMC standards.
- DC5V-24V Input.
- It features single mode/dual core Interface.
- The transmission distance of the single mode fiber could reach up to 20km.
- Fan-less but with high efficiency of the heat dissipation.
- Plug and Play without installing any drivers.
- Quasi industrial design makes it more reliable.
- High or Low temperature working environment : -40-80°C

## Application Scenarios

- It can be widely used in outdoor long-distance transmission projects and with significant advantages.



## 2 Product Parameters

### Hardware Introduction



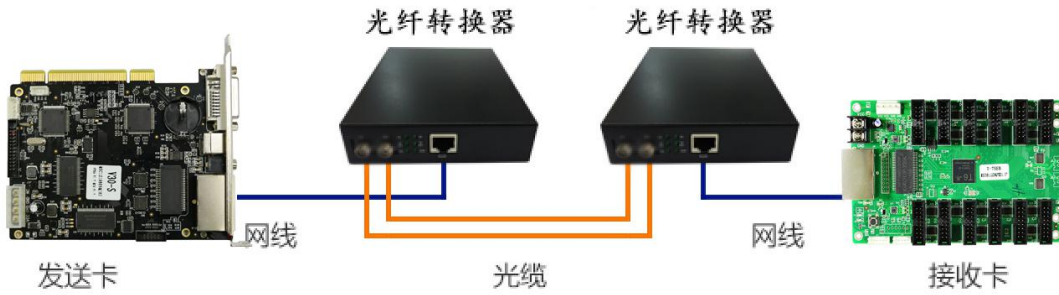
## Indicator Illustration

Indicator	Illustration
PWR	Power Indicator
FDX	Full duplex working mode
FX/1000m	Optical fiber indicator, when the indicator is on and that means the RX optical fiber to the transceiver is connected.
TP/100m	The indicator will be long lasting on when the communication between the sending card or receiving card and the optical fiber transceiver. If not, the indicator will be black.
FX/ACT TP/ACT	Only when both of the FX and TP are on or when there is data transmission between the sending card and the receiving card, the FX/ACT and TP/ACT lights flash quickly, otherwise they don't flash.

## Dimensions



**Connecting Diagram**



# *3 Product Specifications*

## *Specifications*

Interface	1x RJ45+1x SC(dual core)
Transmission Distance	20Km
Optical Features	Fiber SC Interface, wave length: 1310nm (Optical Fiber Cross Use)
Bandwidth	Network Bandwidth: 1.25GHz Network Medium: 1000BASE-TX
Supported Power Supply	Entire Unit Power: < 5W Power Supply: 5V DC (Input:DC12V 2000mA (Input:DC5V 2000mA))
Physical Specs	Dimensions: 95MMx70MMx26MM Weight: 0.9Kg
Working Environment	Working Temperature: -10 °C~+70 °C Storage Temperature: -10 °C~+70 °C Relative Humidity: 0~95% (No condensation) Working height: altitude 3000 meters (10,000ft) Storage Height: altitude 3000 meters (10,000ft)

## *Precautions*

- 1. The testing (debugging) and installation should be done by the qualified professionals*
- 2. Anti-Static, Water-Proof and Dust-Proof Required*

