

DS-3D501R-A 20KM Gigabit Fiber Receiver



DS-3D501R-A is a gigabit single-mode single-fiber fiber optical transceiver developed by Hikvision. It provides one 10/100/1000 Mbps self-adaptive RJ45 port and one 1000 Mbps SC fiber optical port, and can achieve high-speed and lossless transmission of data signals over a maximum of 20 km transmission distance.

- Plug-and-play and fast forwarding, achieving high-speed, lossless, and up to 3 km transmission of data signals with no configuration required
- 4 kV lightning protection design with high reliability
- Quasi-industrial-grade design with an operating temperature range of -20 °C to 60 °C
- Wavelength division multiplexing and single-fiber data forwarding, saving cabling costs
- Solid and high-strength industrial-grade metal shell with stronger heat dissipation capability
- 1 x 10/100/1000 Mbps RJ45 port and 1 x 1000 Mbps SC fiber optical port



Specification

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General		
Shell	Metal	
Net Weight	0.13 kg (0.28 lb)	
Gross Weight	0.23 kg (0.51 lb)	
Dimensions (W × H × D)	71.6 mm × 26.1 mm × 94.1 mm (2.81" × 1.03" × 3.70")	
Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	
Storage Temperature	mperature -40 °C to 85 °C (-40 °F to 185 °F)	
Operating Humidity	5% to 95% (no condensation)	
Relative Humidity	5% to 95% (no condensation)	
Power Supply	5 V DC, 0.6 A	
Max. Power Consumption	Power Consumption 3 W	
Power Consumption in Idle	er Consumption in Idle 1.5 W	
Installation Mode	ntion Mode Desk-Mounted	
Surge Protection	4 kV	
Network Parameters		
Ports	1 x 10/100/1000 Mbps RJ45 port and 1 x 1000 Mbps SC fiber optical port	
Switching Capacity	4 Gbps	
Packet Forwarding Rate	2.98 Mpps	
Optical Module Parameters		
Optical Interface	SC	
Fiber Type	Single-mode bidirectional fiber	
Transmission Distance	20 km	
Wavelength	Tx1550 nm/Rx1310 nm	
Transmit Power	-9 dBm~-3 dBm	
Receiver Sensitivity	≤ -24 dB	
Approval		
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1:	
LIVIC	2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020)	
Safety	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition))	
Chemistry	Reach (Regulation (EC) No.1907/2006)	

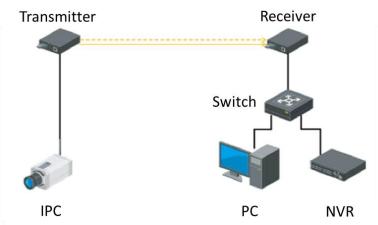
Available Model

DS-3D501R-A

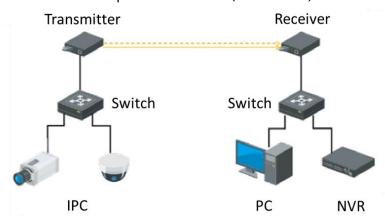


Typical Application

Application 1: IPC Remotely Connected to Fiber Optical Transceiver (Transmitter)

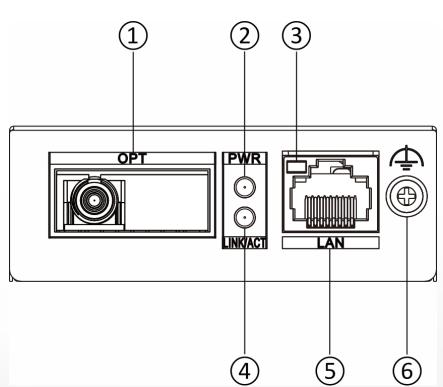


Application 2: IPCs Connected to Fiber Optical Transceiver (Transmitter) via a Switch



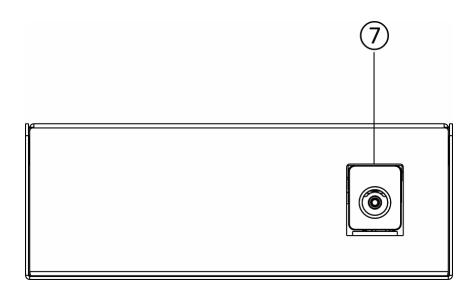
Physical Interface

Front Panel





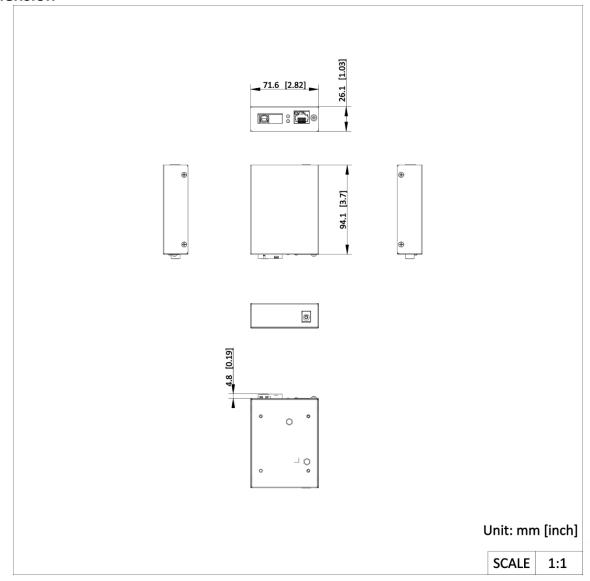
Rear Panel



No.	Port/Indicator	Description
1	OPT	SC fiber optical port, connected to another fiber optical port via a single-mode optical fiber.
2	PWR	Power indicator. Solid on: The device is powered on normally. Unlit: No power supply connected or power supply is abnormal.
3	LINK/ACT	LAN port indicator. ■ Solid on: The 10/100/1000 Mbps self-adaptive RJ45 port is connected.
		• Flashing: The 10/100/1000 Mbps self-adaptive RJ45 port is transmitting or receiving data.
		• Unlit: The 10/100/1000 Mbps self-adaptive RJ45 port is disconnected or connection is abnormal.
4	OPT LINK/ACT	Fiber optical port indicator.
		Solid on: The gigabit SC fiber optical port is connected via an optical fiber.
		Flashing: The gigabit SC fiber optical port is transmitting or receiving data.
		Unlit: The gigabit SC fiber optical port is disconnected or connection is abnormal.
(5)	LAN	10/100/1000 Mbps self-adaptive RJ45 port, used for connection to another device such as a
		network camera (IPC) or switch via a network cable.
6	Grounding Terminal	Used for connection to a grounding cable to protect the device from lightning.
(7)	PWR DC 5V	Power jack.
		Use the attached power adapter to connect the device's power jack to a power socket.



Dimension



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