

DS-3D504P-A-2SC 4-Port PoE Media Convertor



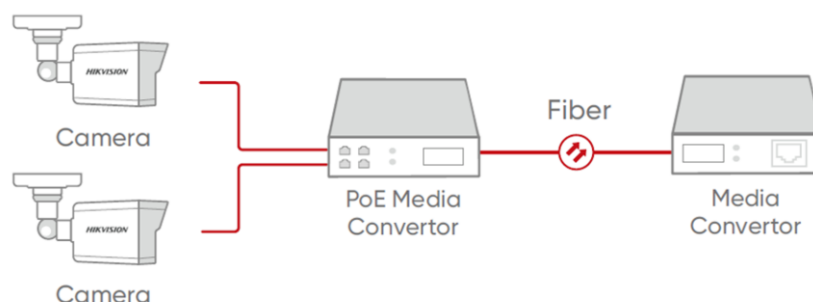
DS-3D504P-A-2SC is a gigabit single-mode single-fiber fiber optical transceiver developed by Hikvision. It provides four 10/100/1000 Mbps self-adaptive RJ45 ports and two 1000 Mbps SC fiber optical ports, and can achieve high-speed and lossless transmission of data signals over a maximum of 20 km transmission distance.

- 4 x 10/100/1000 Mbps PoE RJ45 port and 2 x 1000 Mbps SC fiber optical port
- Solid and high-strength industrial-grade metal shell with stronger heat dissipation capability
- Wavelength division multiplexing and single-fiber data forwarding, saving cabling costs
- Quasi-industrial-grade design with an operating temperature range of 0 °C to 40 °C
- 6 kV lightning protection design with high reliability
- Plug-and-play and fast forwarding, achieving high-speed, lossless, and up to 20 km transmission of data signals with no configuration required

▪ Specification

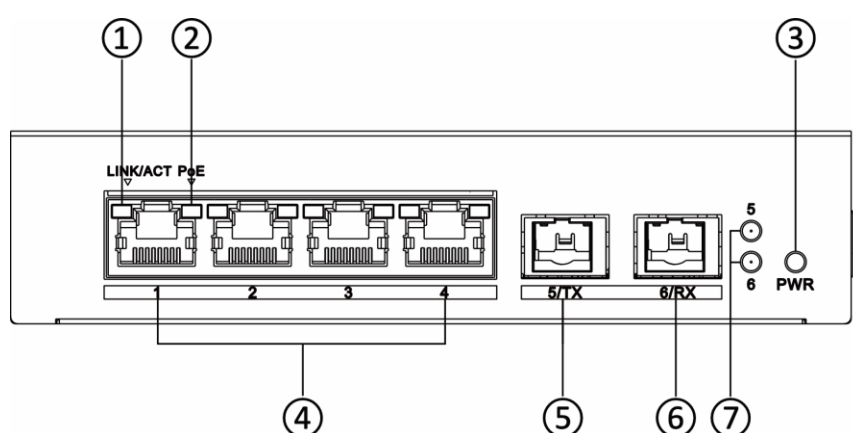
General	
Dimensions (W × H × D)	138.00 mm × 31.60 mm × 86.20 mm (5.43" × 1.24" × 3.39")
Net Weight	0.32 kg (0.71 lb)
Gross Weight	0.89 kg (1.96 lb)
Working Temperature	0 °C to 40 °C (32 °F to 104 °F)
Working Humidity	5% to 95% (no condensation)
Storage Temperature	−40 °C to 85 °C (−40 °F to 185 °F)
Storage Humidity	5% to 95% (no condensation)
Installation Mode	Rail
Power Specifications	54 V DC, 1.2 A
Power Consumption	≤ 60 W
Packing List	Convertor × 1 Power Adaptor × 1 AC Power Cord × 1 Regulatory Compliance and Safety Information × 1
Network Parameters	
Ports	4 x 10/100/1000 Mbps PoE port and 2 x 1000 Mbps SC fiber optical port
Switching Capacity	12 Gbps
Packet Forwarding Rate	8.93 Mpps
MAC Address Capacity	2 K
Cache	2 Mbits
PoE Power Supply	
PoE Standard	Ports 1 to 4: IEEE 802.3af, IEEE 802.3at
PoE Port	PoE: Ports 1 to 4
Max. Port Power	30 W
PoE Power Budget	60 W
PoE Power Pin	End-span: 1/2(-), 3/6(+)
Key Feature	
Switching Method	Store-and-Forward
Network Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
Security Protection	6 kV
Optical Fiber Parameter	
Optical Interface	SC
Fiber Type	Single-Mode, Single-Fiber Bidirectional Transmission
Transmission Distance	20 km
Wavelength	Port 5: Tx 1310 nm/Rx 1550 nm Port 6: Tx 1550 nm/Rx 1330 nm
Transmission Power	−9 dBm~−3 dBm
Receiving Sensitivity	≤ −24 dBm
Approval	
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 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)

▪ Typical Application

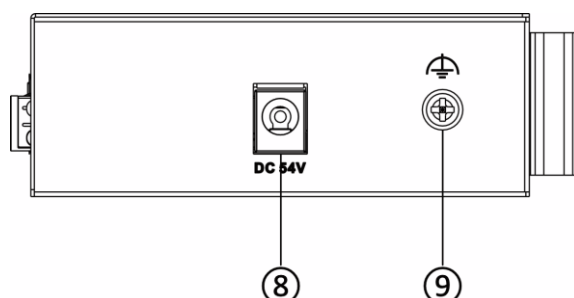


▪ Physical Interface

Front Panel



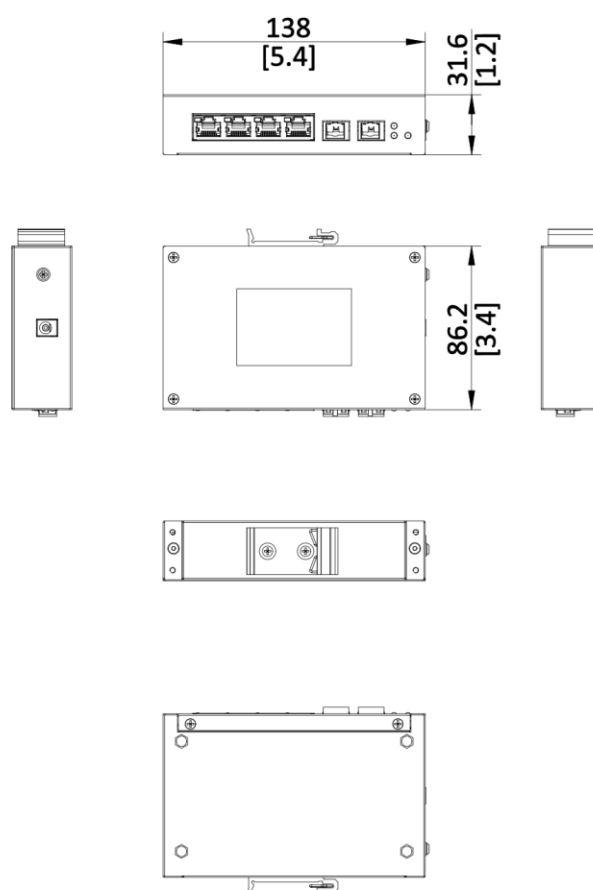
Side Panel



No.	Port/Indicator	Description
①	LINK/ACT Indicator	● Solid on: The 10/100/1000 Mbps auto-negotiation PoE RJ45 port is connected. ● Flashing: The 10/100/1000 Mbps auto-negotiation PoE RJ45 port is transmitting or receiving data. ● Unlit: The 10/100/1000 Mbps auto-negotiation PoE RJ45 port is disconnected or connection is abnormal.
②	PoE Indicator	● Solid on: The device supplies power to a PD normally. ● Unlit: The device is disconnected from a PD or power supply is abnormal.
③	PWR Indicator	● Solid on: The device is powered on normally. ● Unlit: No power supply connected or power supply is abnormal.
④	PoE RJ45 Port	10/100/1000 Mbps auto-negotiation PoE RJ45 port, used for connection to a PD such as a network camera (IPC) or switch via a network cable.
⑤	Gigabit SC Fiber Optical Port (TX)	The TX port (Transmit port) is responsible for sending data signals out from the media convertor. It converts electrical signals generated by the transceiver into optical signals and transmits them through the fiber link to a remote device.

⑥	Gigabit SC Fiber Optical Port (RX)	The RX port (Receive port) is responsible for receiving incoming data signals. When data is sent over the fiber link, it arrives at the RX port. The media convertor then converts the optical signals back into electrical signals that can be processed by the devices connected via Ethernet cables.
⑦	Fiber Optical Port Indicator (Ports 5 and 6)	● 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.
⑧	DC Power Jack	Use the attached power adapter and power cord to connect the device's power jack to a power socket.
⑨	Grounding Terminal	Used for connection to a grounding cable to protect the device from lightning.

■ Dimension



Unit: mm [inch]

SCALE 1:1

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