

## **DS-3D504TP-A** **20KM Gigabit PoE Media Convertor**



DS-3D504TP-A is a gigabit single-mode single-fiber media convertor developed by Hikvision. It provides four 10/100/1000 Mbps self-adaptive PoE 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.

- 4 x 10/100/1000 Mbps PoE port and 1 x 1000 Mbps SC fiber optical port
- Plug-and-play and fast forwarding, achieving high-speed, lossless, and up to 20 km transmission of data signals with no configuration required
- 6 kV lightning protection design with high reliability
- Quasi-industrial-grade design with an operating temperature range of 0 °C to 40 °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

## ▪ Specification

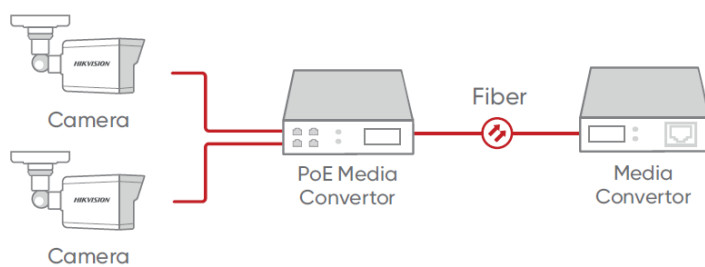
Network Parameters	
Ports	4 x 10/100/1000 Mbps PoE port and 1 x 1000 Mbps SC fiber optical port
Switching Capacity	14 Gbps
Packet Forwarding Rate	10.42 Mpps
General	
Shell	Metal
Net Weight	0.13 kg (0.28 lb)
Gross Weight	0.23 kg (0.51 lb)
Dimensions (W × H × D)	121.1 mm × 27.6 mm × 83.1 mm (4.77" × 1.09" × 3.27")
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-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	54 V DC, 1.2 A
Max. Power Consumption	< 65W
Power Consumption in Idle	2 W
Installation Mode	Desk-Mounted, Wall-Mounted
Surge Protection	6 kV
Optical Module Parameters	
Optical Interface	SC
Fiber Type	Single-mode bidirectional fiber
Transmission Distance	20 km
Wavelength	Tx1310 nm/Rx1550 nm
Transmit Power	-9 dBm~-3 dBm
Receiver 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)

## ▪ Available Model

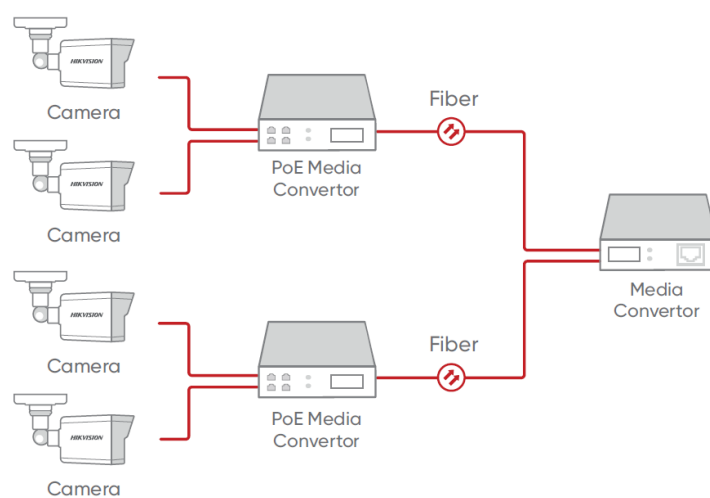
DS-3D504TP-A

## ▪ Typical Application

### Application 1

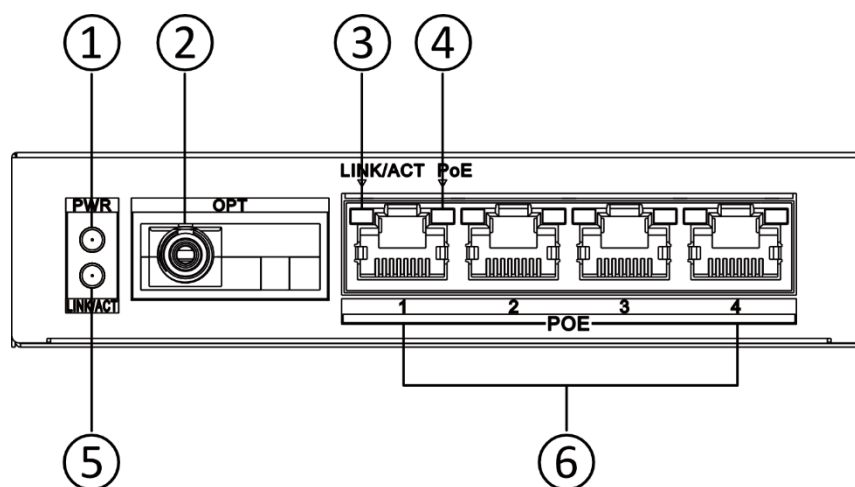


### Application 2

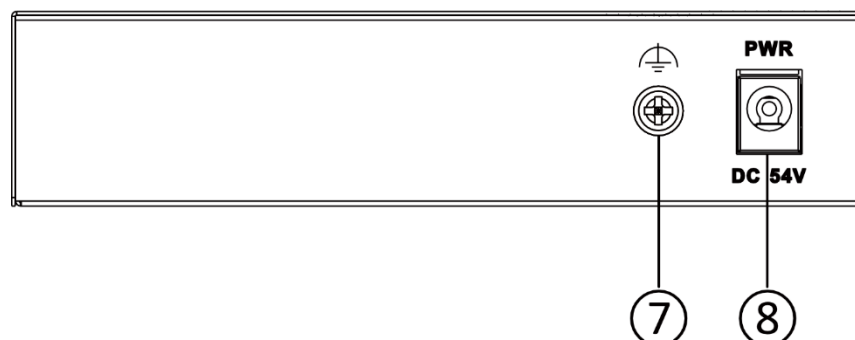


## Physical Interface

Front Panel



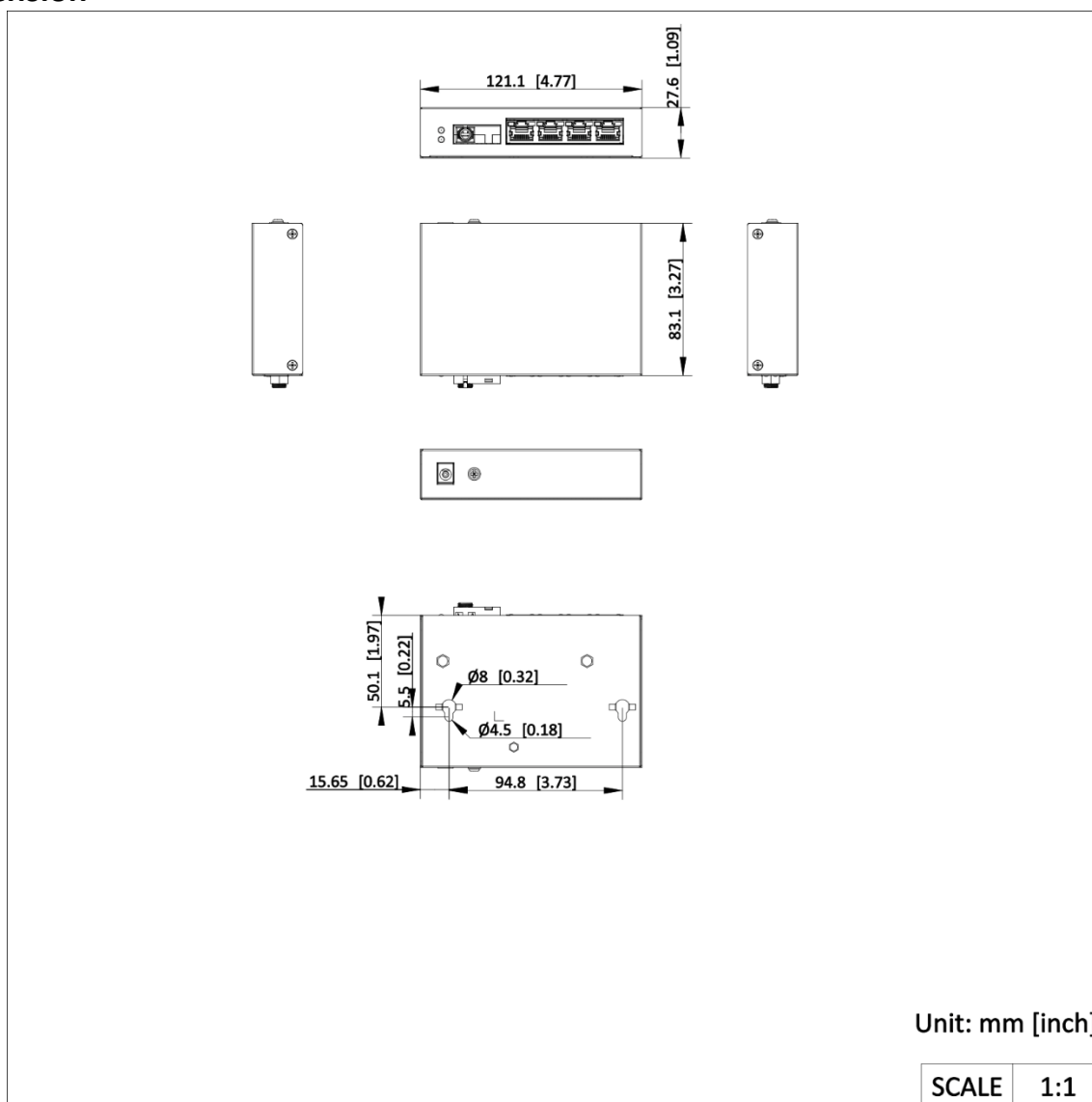
Rear Panel



No.	Port/Indicator	Description
①	PWR	Power indicator. <ul style="list-style-type: none"> <li>● Solid on: The device is powered on normally.</li> <li>● Unlit: No power supply connected or power supply is abnormal.</li> </ul>
②	OPT	Gigabit SC fiber optical port, connected to another fiber optical port via a single-mode optical fiber.
③	LINK/ACT	RJ45 port indicator. <ul style="list-style-type: none"> <li>● Solid on: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is connected.</li> <li>● Flashing: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is transmitting or receiving data.</li> <li>● Unlit: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is disconnected or connection is abnormal.</li> </ul>
④	PoE	PoE status indicator. <ul style="list-style-type: none"> <li>● Solid on: The device supplies power to a PD normally.</li> <li>● Unlit: The device is disconnected from a PD or power supply is abnormal.</li> </ul>
⑤	OPT LINK/ACT	Fiber optical port indicator. <ul style="list-style-type: none"> <li>● Solid on: The gigabit SC fiber optical port is connected via an optical fiber.</li> <li>● Flashing: The gigabit SC fiber optical port is transmitting or receiving data.</li> <li>● Unlit: The gigabit SC fiber optical port is disconnected or connection is abnormal.</li> </ul>
⑥	PoE LAN	10/100/1000 Mbps self-adaptive PoE RJ45 port, used for connection to a PD such as a network camera (IPC) or switch via a network cable.
⑦	Grounding Terminal	Used for connection to a grounding cable to protect the device from lightning.

⑧	PWR DC 54V	<p>Power jack.</p> <p>Use the attached power adapter to connect the device's power jack to a power socket.</p>
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## ▪ Dimension



# See Far, Go Further



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