

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.

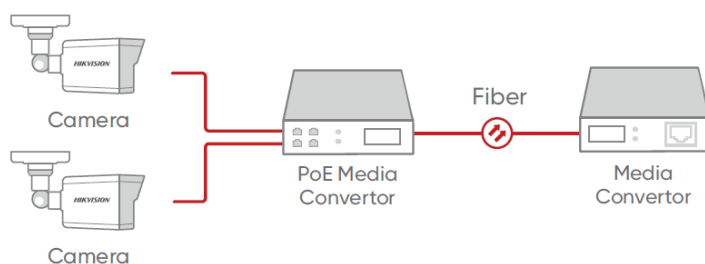
- 4 x 10/100/1000 Mbps PoE port and 1 x 1000 Mbps SC fiber optical port
- Plug-and-play and fast forwarding, achieving high-speed, lossless, and up to 20 km transmission of data signals with no configuration required
- 6 kV lightning protection design with high reliability
- Quasi-industrial-grade design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

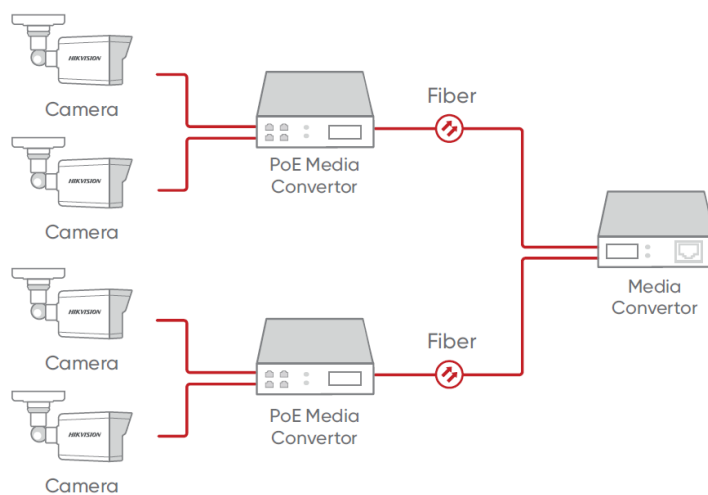
General	
Shell	Metal
Net Weight	0.13 kg (0.28 lb)
Gross Weight	0.23 kg (0.51 lb)
Dimensions (W × H × D)	121.1 mm × 27.6 mm × 83.1 mm (4.77" × 1.09" × 3.27")
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% to 95% (no condensation)
Relative Humidity	5% to 95% (no condensation)
Power Supply	54 V DC, 1.2 A
Max. Power Consumption	< 65 W
Power Consumption in Idle	2 W
Installation Mode	Desk-Mounted, Wall-Mounted
Surge Protection	6 kV
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
PoE Power Supply	
PoE Standard	Ports 1 to 4: IEEE 802.3af, IEEE 802.3at
PoE Power Pin	End-span: 1/2(-), 3/6(+)
PoE Port	PoE: Ports 1 to 4
Max. Port Power	30 W
PoE Power Budget	60 W
Optical Module Parameters	
Optical Interface	SC
Fiber Type	Single-mode bidirectional fiber
Transmission Distance	20 km
Wavelength	Tx1310 nm/Rx1550 nm
Transmit Power	-9 ~ -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)

▪ Typical Application

Application 1

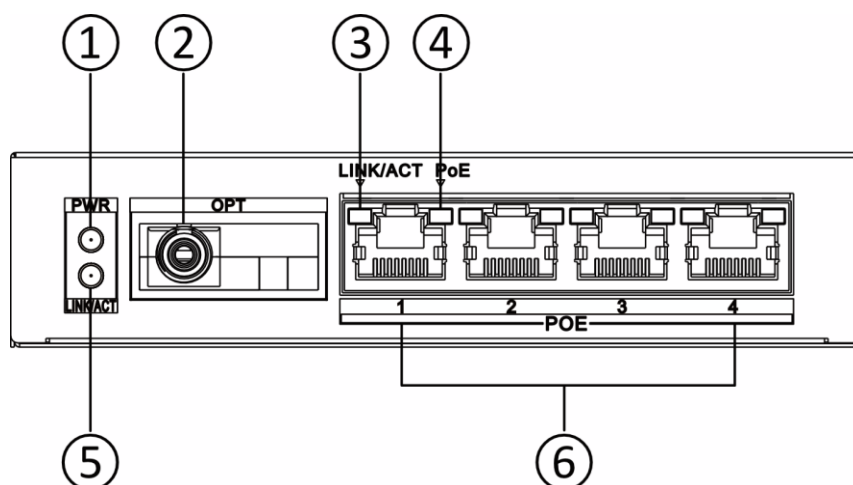


Application 2

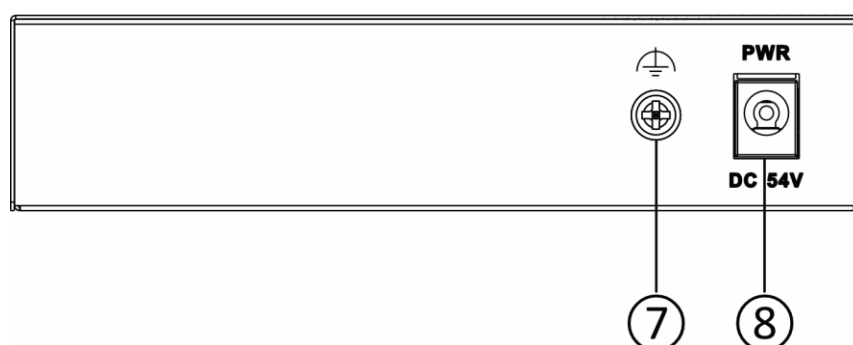


Physical Interface

Front Panel



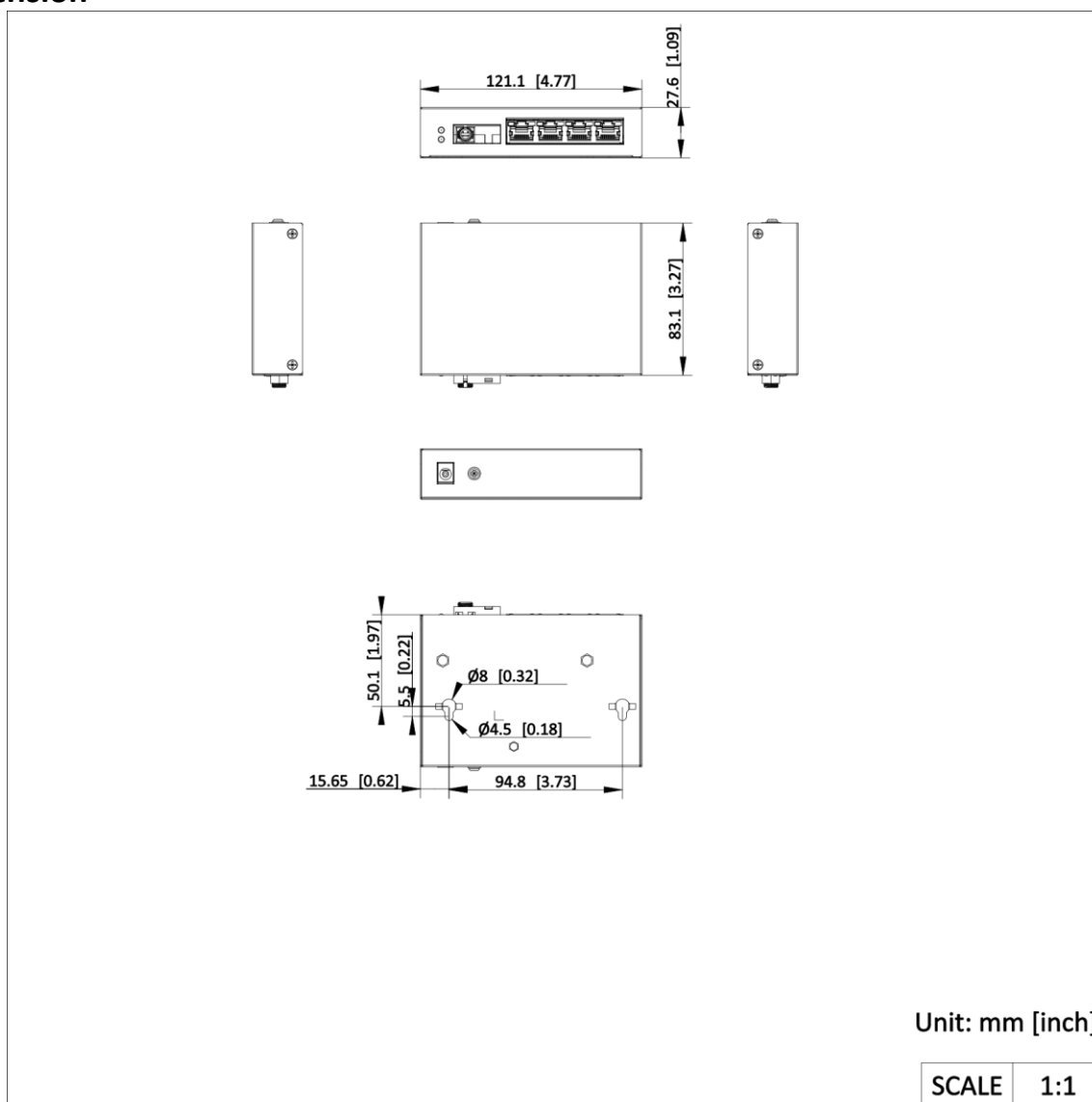
Rear Panel



No.	Port/Indicator	Description
①	PWR	Power indicator. ● Solid on: The device is powered on normally. ● Unlit: No power supply connected or power supply is abnormal.
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. ● Solid on: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is connected. ● Flashing: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is transmitting or receiving data. ● Unlit: The 10/100/1000 Mbps self-adaptive PoE RJ45 port is disconnected or connection is abnormal.
④	PoE	PoE status indicator. ● Solid on: The device supplies power to a PD normally. ● Unlit: The device is disconnected from a PD or power supply is abnormal.
⑤	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.
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	Power jack. Use the attached power adapter to connect the device's power jack to a power socket.

▪ Dimension



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