

## DS-3E1309P-EI 8 Port Fast Ethernet Smart PoE Switch



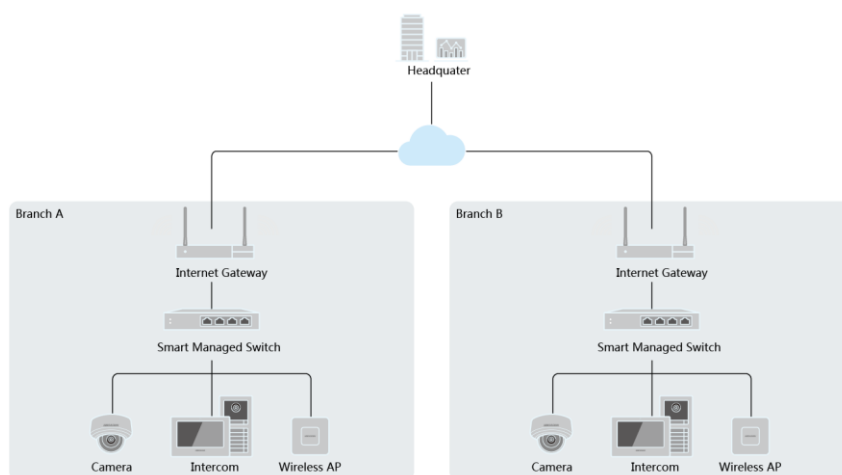
- 8 × 10/100M PoE ports, 1 × Gigabit RJ45 port
- Total PoE Power Budget 110 W
- Support 802.1Q VLAN
- Support PoE watchdog to detect and restart the cameras that do not respond
- Support cable detection to locate failure
- Up to 300 m Long Range PoE Transmission
- 6 kV Surge Protection

## ▪ Specification

| General                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shell                     | Metal material, fan-free design                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Net Weight                | 0.35 kg (0.77 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Gross Weight              | 1.114 kg (2.45 lb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions (W × H × D)    | 170.00 mm × 27.60 mm × 93.10 mm (6.69" × 1.09" × 3.67")                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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, 2.22 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Installation Mode         | Desk-Mounted, Wall-Mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Max. Power Consumption    | 120 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power Consumption in Idle | 10 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Surge Protection          | 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Network Parameters        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Ports                     | 8 × 10/100 Mbps PoE port, 1 × Gigabit RJ45 port                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MAC Address Table         | 8 K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Packet Forwarding Rate    | Whole-Device Performance: 4.17 Mpps<br>Port Performance: 2.68 Mpps                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Switching Capacity        | Whole-Device Performance: 5.6 Gbps<br>Port Performance: 3.6 Gbps                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Internal Cache            | 4 Mbits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Software Function         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Long Range                | Ports 1 to 8: up to 300 m.<br>Long range performance may vary depend on camera model or cable condition.                                                                                                                                                                                                                                                                                                                                                                               |
| Port Isolation            | Ports 1 to 8: port isolation mode to improve network security<br>Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation group.                                                                                                                                                                                                                                                                                      |
| PoE Watchdog              | Ports 1 to 8: auto detect and restart the cameras that do not respond.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Loop Prevention           | Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default.                                                                                                                                                                                                                                                                                                                                   |
| HPP                       | Support one-click activation and remote management via Hik-Partner Pro. Functions supported:<br><ol style="list-style-type: none"> <li>1. Display the port rate.</li> <li>2. Display the port bandwidth utilization rate.</li> <li>3. Display the PoE power usage.</li> <li>4. Display topology information.</li> <li>5. Display the alarm status.</li> <li>6. Restart ports and devices.</li> <li>7. Enable port long-range mode.</li> <li>8. Remotely upgrade the device.</li> </ol> |

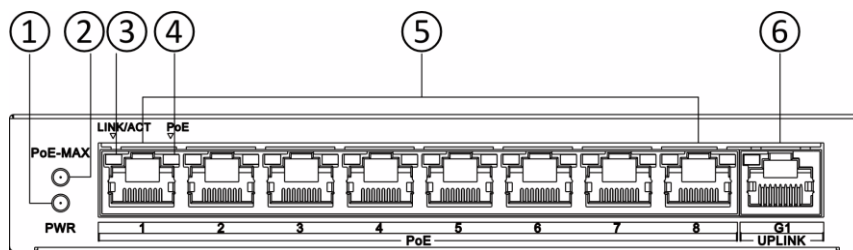
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Maintenance      | <p>Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses.</p> <p>Support Super IP, which is a fixed IP address (10.180.190.200) for direct access.</p> <p>Support management via Hik-Central Pro.</p> <p>Support remote management via Hik-Partner Pro.</p> <p>Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected.</p> <p>Support 802.1ab LLDP for peer device discovery.</p> <p>Support port mirroring for fault locating.</p> |
| <b>PoE Power Supply</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PoE Standard            | IEEE 802.3af, IEEE 802.3at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| PoE Power Pin           | 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PoE Port                | PoE: Ports 1 to 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Max. Port Power         | 30 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PoE Power Budget        | 110 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Approval</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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), IC (ICES-003: Issue 7:2020), RCM (AS/NZS CISPR 32: 2015)                                                                                                                                                                                                                                                                                                                               |
| Safety                  | CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Chemistry               | CE-RoHS (2011/65/EU), WEEE (2012/19/EU), Reach (Regulation (EC) No.1907/2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## ▪ Typical Application



## Physical Interface

Front Panel

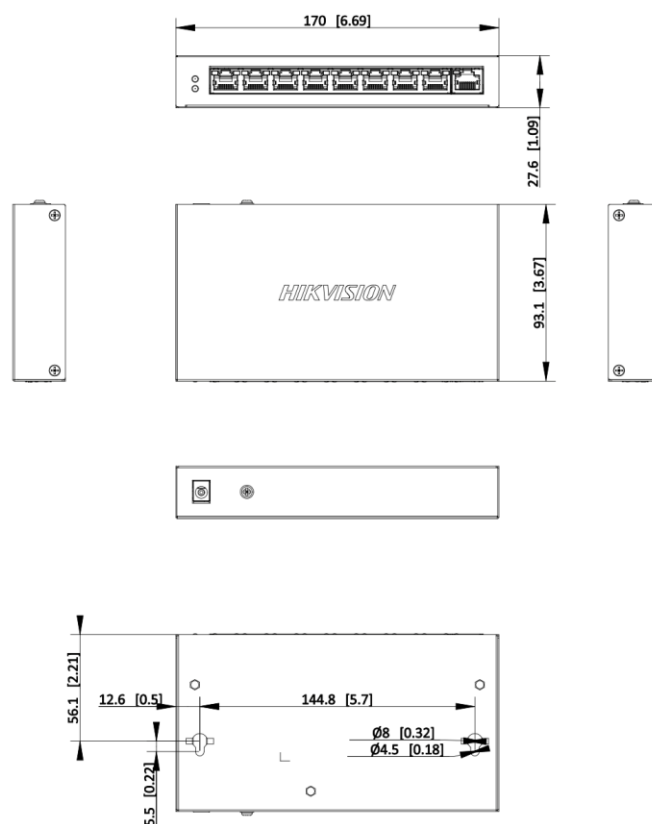


Rear Panel



| No. | Indicator/Port            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ①   | PWR Indicator             | <ul style="list-style-type: none"> <li>● Solid on: The switch is powered on normally.</li> <li>● Unlit: No power supply is connected or power supply is abnormal.</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| ②   | PoE-MAX Indicator         | <ul style="list-style-type: none"> <li>● Solid on/Flashing: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected.</li> <li>● Unlit: The switch does not supply power to a powered device (PD), or supplies power to a PD normally and its output power does not reach the upper limit.</li> </ul> <p>Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.</p> |
| ③   | LINK/ACT Indicator        | <ul style="list-style-type: none"> <li>● Solid on: The port is connected.</li> <li>● Flashing: The port is transmitting data.</li> <li>● Unlit: The port is disconnected or connection is abnormal.</li> </ul>                                                                                                                                                                                                                                                                                                     |
| ④   | PoE Indicator             | <ul style="list-style-type: none"> <li>● Solid on: The switch supplies power to a PD normally.</li> <li>● Unlit: The switch is disconnected from a PD or power supply is abnormal.</li> </ul>                                                                                                                                                                                                                                                                                                                      |
| ⑤   | 10/100 Mbps PoE RJ45 Port | Used for connection to a PD via a network cable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ⑥   | Gigabit RJ45 Port         | Used for connection to another device via a network cable.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ⑦   | Reset Button              | Press and hold the reset button for about 5 seconds to restore all the configurations of the switch to default settings.                                                                                                                                                                                                                                                                                                                                                                                           |
| ⑧   | Grounding Terminal        | Used for connection to the grounding cable to protect the switch from lightning.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ⑨   | Power Supply              | Use the attached power adapter and power cord to connect the switch to a socket.                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Dimension



Unit: mm [inch]

|       |     |
|-------|-----|
| SCALE | 1:1 |
|-------|-----|

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