

DS-3T1506HP-EI-UPS 4 Port Gigabit Smart Managed Industrial Solar PoE Switch



DS-3T1506HP-EI-UPS is a multi-functional POE switch specifically designed by Hikvision for solar power scenarios, offering flexible energy-saving options, enabling remote monitoring of the health status of solar batteries, and providing a variety of voltage input and output choices to adapt to different scenarios.

- 4 x Gigabit PoE Ports, 2 × Gigabit SFP
- Support 802.3bt Hi-PoE, Max. 90 W for one port
- Support 24 V passive PoE output for wireless bridge, etc.
- Support 12 V to 24 V solar power input, DC 54 V input
- Wider Temperature (-40 °C to 75 °C) Design
- Support battery health monitoring via Hik-Partner Pro and Hik-Connect
- Support power consumption schedule
- 6 kV Surge Protection



## Specification

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General			
Net Weight	0.7 kg (1.54 lb)		
Gross Weight	1.16 kg (2.56 lb)		
Dimensions (W × H × D)	158.00 mm × 44.00 mm × 130.00 mm (6.22'' × 1.73'' × 5.12'')		
Operating Temperature	-40 °C to 75 °C (-40 °F to 167 °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	12 V DC, 10 A or 24 V DC, 5 A; 54 V 2.22 A		
Installation Mode	Desk-Mounted,Rail		
Max. Power Consumption	300 W		
Power Consumption in Idle	2 W		
Surge Protection	6 kV		
Shell	Metal material, IP30		
Network Parameters			
Ports	4 × Gigabit PoE port,2 × Gigabit fiber optical port,1 x RS485 port		
MAC Address Table	2 K		
	Whole-Device Performance: 14 Gbps		
Switching Capacity	Port Performance: 12 Gbps		
	Whole-Device Performance: 10.42 Mpps		
Packet Forwarding Rate	Port Performance: 8.93 Mpps		
Internal Cache	1 Mbits		
PoE Power Supply			
,	Port 1: IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt		
	Ports 2 to 4: IEEE 802.3af, IEEE 802.3at		
PoE Standard	Ports 3 to 4: support passive PoE, 24 V or 54 V output depending on DIP switch		
	settings		
	Port 1: 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)		
PoE Power Pin	Port 2: End-span: 1/2(-), 3/6(+)		
	Ports 3 to 4: 8-pin power: 1/2(-), 3/6(+), 54 V output ; 4/5(+), 7/8(-), 24 V output		
	Hi-PoE: Port 1		
PoE Port	PoE: Ports 2 to 4		
	Port 1: 90 W		
Max. Port Power	Ports 2 to 4: 30 W		
	DC 54 V input: 120 W		
PoE Power Budget	DC 12 V~24 V input: 60 W		
Software Function			
	Ports 1 to 4: up to 300 m.		
Long Range	Long range performance may vary depend on camera model or cable condition.		
	Ports 1 to 6: port isolation mode to improve network security		
Port Isolation	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 4: auto detect and restart the cameras that do not respond.		



Link Aggregation	Link aggregation is used to aggregate multiple physical ports to form a logical port for load balancing, bandwidth expansion, and port protection.
	Support static link aggregation.
	Support 2 aggregation group(s).
	Loop prevention is used to prevent the switching network from forming loops, which
Loop Prevention	will seriously affect network communication. Disabled by default.
	Support 802.1D STP.
	Support 802.1w RSTP.
	Support G.8032 ERPS.
VLAN	VLAN is used for network scale planning and network health improvement.
	Support 802.1Q.
	Configurable VLAN ID from 1-4094.
	Support Trunk, Access port mode.
	Support Max. 4094 VLAN.
	Support one-click activation and remote management via Hik-Partner Pro. Functions
	supported:
	1. Display the port rate.
	<ol> <li>Display the port bandwidth utilization rate.</li> <li>Display the Definition of the D</li></ol>
HPP	3. Display the PoE power usage.
	4. Display topology information.
	5. Display the alarm status.
	6. Restart ports and devices.
	7. Enable port long-rage mode.
	8. Remotely upgrade the device.
	Support device management via web.
	Support DHCP Client. Enabled by default for dynamic assignment of management IP
	addresses.
	Support Super IP, which is a fixed IP address (10.180.190.200) for direct access.
System Maintenance	Support management via Hik-Central Pro.
,	Support remote management via Hik-Partner Pro.
	Support cable detection. Abnormal open circuits and short circuits as well as network
	cable length can be detected.
	Support 802.1ab LLDP for peer device discovery.
	Support port mirroring for fault locating.
	DHCP Snooping can prevent unauthorized connections to DHCP servers from
DHCP Snooping	disrupting the network and affecting normal network communication, and only allow
	DHCP packets from trusted ports to pass through. Disabled by default.
Approval	
	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A
EMC	2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020),IC (ICES-003: Issue
	7:2020),RCM (AS/NZS CISPR 32: 2015)
	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition)), CE-LVD (EN 62368
Safety	1: 2014+A11: 2017)
	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)

Available Model

DS-3T1506HP-EI-UPS



### Key Component

Order Sap	Order Model	Туре	Parameter
303703680	NDR-75-48	Industrial	AC/DC Power Supply, Output 48V-55V, 0-1.6A, 75watts, Input 90-264VAC,
303703080		Power Supply	127-370VDC, DIN rail, -20~70°C
303703681	NDR-240-48	Industrial	AC/DC Power Supply, Output 48V-55V, 0-5A,240watts, Input 90-264VAC,
303703081		Power Supply	127-370VDC, DIN rail, -20~70°C
303703682	NDR-480-48	Industrial	AC/DC Power Supply, Output 48V-55V, 0-10A, 480watts, Input 90-
		Power Supply	264VAC, 127-370VDC, DIN rail, -20~70°C

## Typical Application





#### Physical Interface



Side Panel



No. **Indicator/Port** Description Press and hold the reset button for more than 5 seconds to restore all the configurations of (1)**Reset Button** the switch to default settings. • Solid on: The port is connected. (2)LINK/ACT Indicator • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal. • Solid on: The switch supplies power to a powered device (PD) normally. (3) **PoE Indicator** • Unlit: The switch is disconnected from a PD or power supply is abnormal. 3A: • Solid on: 54 V standard PoE is enabled for port 3. Unlit: 54 V standard PoE is disabled for port 3. • 3B: • Solid on: 24 V non-standard PoE is enabled for port 3. • Unlit: 24 V non-standard PoE is disabled for port 3. (4) **Function Indicator** 4A: • Solid on: 54 V standard PoE is enabled for port 4. Unlit: 54 V standard PoE is disabled for port 4. • 4B: • Solid on: 24 V non-standard PoE is enabled for port 4. • Unlit: 24 V non-standard PoE is disabled for port 4. **Gigabit SFP Fiber** • Solid on: The gigabit SFP fiber optical port is connected. (5) **Optical Port Indicator** Flashing: The gigabit SFP fiber optical port is transmitting data. •

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		• Unlit: No gigabit SFP fiber optical port connected or connection is abnormal.		
		Used for connection to a PD via a network cable.		
6	Gigabit PoE RJ45 Port	Note: Port 1 of the switch is a Hi-PoE RJ45 port, which can be connected to a high-power device.		
7	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.		
8	PoE-MAX Indicator	<ul> <li>Solid on: 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 supplies power to a PD normally and its output power does not reach the upper limit.</li> <li>Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.</li> </ul>		
9	PWR Indicator	<ul> <li>Solid on: The switch is powered on normally.</li> <li>Unlit: No power supply is connected or power supply is abnormal.</li> </ul>		
10	Power Supply	<ul> <li>Select DC 54 V for normal power input or DC 12-24 V for solar power input as required.</li> <li>DC 54 V: Use a self-prepared power cord and power adapter to connect the switch to a power socket.</li> <li>DC 12-24 V: Use two self-prepared power cords to connect the DC positive electrode to the battery positive electrode and the DC negative electrode to the battery negative electrode respectively.</li> </ul>		
(1)	Grounding Terminal	Used for connection to the grounding cable to protect the switch from lightning.		
12	DIP Switch	<ul> <li>1 (24 V/54 V for port 3):</li> <li>When the DIP switch 1 is set to Port3 24V, port 3 can be compatible with 24 V forced PoE powered devices, such as wireless bridges.</li> <li>When the DIP switch 1 is set to 54V, port 3 only supplies power to IEEE 802.3af/at PoE powered devices, such as IPCs.</li> <li>2 (24 V/54 V for port 4):</li> <li>When the DIP switch 2 is set to Port4 24V, port 4 can be compatible with 24 V forced PoE powered devices, such as wireless bridges.</li> <li>When the DIP switch 2 is set to 54V, port 4 only supplies power to IEEE 802.3af/at PoE powered devices, such as Wireless bridges.</li> <li>When the DIP switch 2 is set to 54V, port 4 only supplies power to IEEE 802.3af/at PoE powered devices, such as IPCs.</li> <li>3 (All indicators off/on):</li> <li>When the DIP switch 3 is set to ALL LED OFF, all indicators on the switch except the PWR indicator are unlit to save power.</li> <li>When the DIP switch 3 is set to ON, all indicators on the switch are solid on.</li> </ul>		
(13)	RS485 interface	Reserved for the switch to acquire battery information, such as battery voltage, current, state of charge (SOC), etc.		



#### Dimension



#### Accessory

#### Optional



# See Far, Go Further



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