

## 4\*10/100/1000Base-T PoE + 1\*1000Base-X

### Unmanaged Industrial PoE Switch

#### DK3110I-4TP1S Series



#### Features

- 4\*10/100/1000M RJ45 PoE ports, 1\*1000Base-X SFP(/SC/ST/FC optional) fiber port
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Dip switch function: 1. Port isolation; 2. 250m long distance; 3. QoS; 4. PoE watchdog
- Support 10K Bytes Jumbo frame
- Support 4KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- IP40 fan-less and Din-rail hardware design
- Operation temperature: -40°C ~+75°C

#### Overview

The DK3110I-4TP1S series are unmanaged industrial grade PoE switches with 4-port 10/100/1000-T PoE and 1-port 1000Base-X fiber optical interfaces. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. Moreover, they are featuring with port isolation, 250m long distance transmission mode(1-2 ports), QoS(1-2 ports) and PoE watchdog function, which

all can be configured by the Dip switch on the top panel.

DK3110I-4TP1S series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, such as wide range power input 44-57VDC, redundant power design with polarity reverse/over-voltage protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability and so on. They are the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

## Technical specification

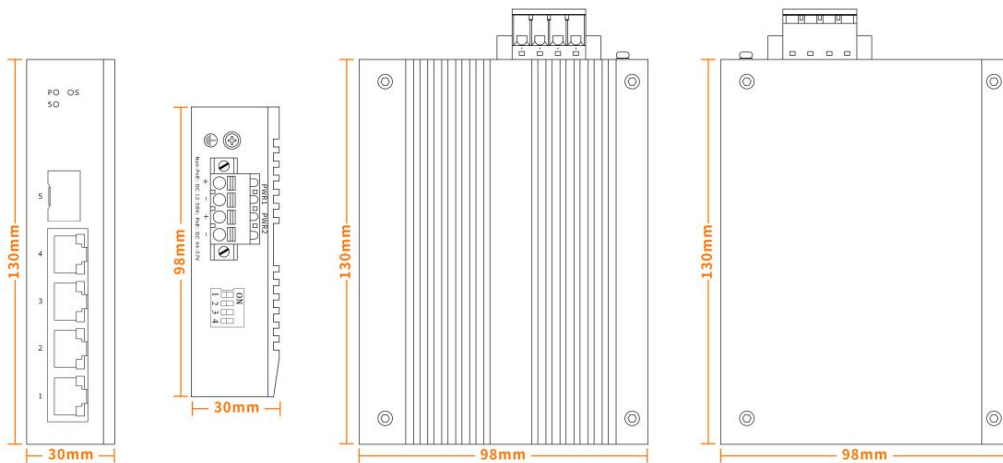
Model No.	DK3110I-4TP1S		
Interface	Fiber port	Copper RJ45 ports	
	1	4	
Ethernet	4*10/100/1000Base-T PoE 1*1000Base-X SFP (SC/ST/FC optional)		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3ab Gigabit Ethernet IEEE 802.3x Full-Duplex Flow Control IEEE 802.3az Energy Efficient Ethernet IEEE 802.3af Power-Over-Ethernet IEEE 802.3at Power Over Ethernet plus PSE		
Dip Switch	1. Port Isolation 2. 250m long distance mode(1-2 ports) 3. QoS(1-2 ports) 4. PoE watchdog		
LED Indicators	P(Power indicator) <b>Green</b>	Off: the device is power off or failed	
		On: the device power on is normal	
	S(PoE usage indicator) <b>Red</b>	Off: total PoE usage < rated 50%	
		Blinking: rated 50% < total PoE usage < rated 90%	
		On: total PoE usage ≥ rated 90%	
	1-4(Copper ports)	<b>Green</b> indicators	<b>Yellow</b> indicators
		Off: ports link down	Off: PoE not working
		On: ports link up	On: PoE working
		Blinking: data on TX/RX	
	5 (Fiber port) <b>Green</b>	Off: ports link down	
On: ports link up			

		Blinking: data on TX/RX
<b>Power parameters</b>		
Input voltage	44-57VDC, redundant power input	
Input current	3A Max	
Total power consumption	Full loading without PoE ≤5W PoE power budget ≤120W	
Connector	Removable 4-pin terminal block	
Reverse polarity protection	Support	
Over-voltage protection	Support	
<b>Switching features</b>		
Switching capacity	10G	
Packet forwarding rate	14.8 Mpps	
MAC address table	2K	
VLAN	4K	
Buffer	3M	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
<b>Network Topology</b>		
Star topology	Support	
Bus topology	Support	
Tree Topology	Support	
<b>Mechanical structure</b>		
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	30*98*130mm	
Weight	0.51 kg	
<b>Operating environment</b>		
Operating temperature	-40℃~+75℃	

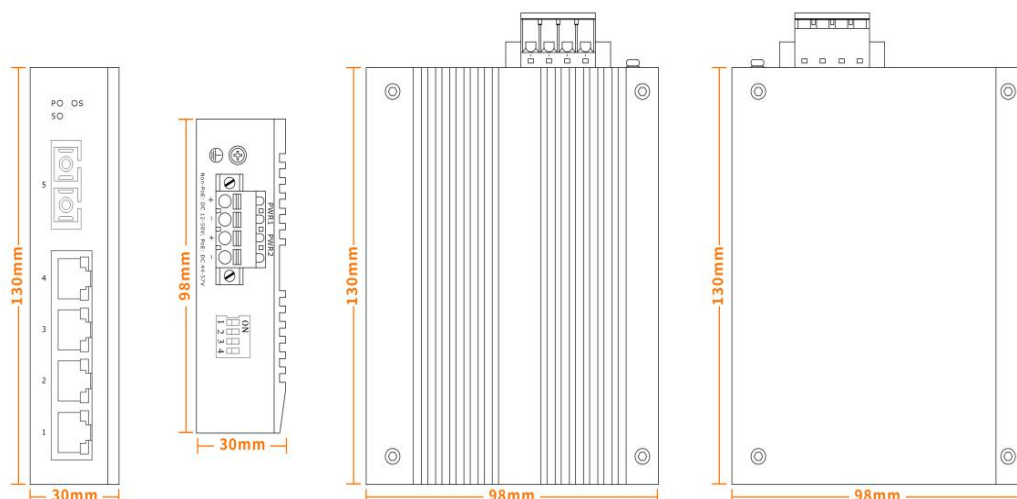
<b>Storage/transportation temperature</b>	-40°C~+85°C
<b>Relative humidity</b>	5%~95% (non-condensing)
<b>Industrial Standard</b>	Surge protection of power: IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
	Surge protection of Ethernet ports: IEC 61000-4-5 Level 3 (4KV/2KV) (10/700us)
	DIP: IEC 61000-4-11 Level 3 (10V)
	ESD: IEC 61000-4-2 Level 4 (8K/15K)
	Shock: IEC 60068-2-27
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
<b>Certification</b>	CE/FCC/RoHS
<b>Warranty</b>	5 years

## Structure diagram

SFP model



SC/ST/FC model



## Order information

Model	Description
<b>DK3110I-4TP1S</b>	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 4*10/100/1000Base-T PoE ports and 1*1000Base-X SFP slot, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C~+75°C
<b>DK3110I-4TP1S-SC</b>	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 4*10/100/1000Base-T PoE ports and 1*1000Base-X SC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C~+75°C
<b>DK3110I-4TP1S-FC</b>	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 4*10/100/1000Base-T PoE ports and 1*1000Base-X FC port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C~+75°C
<b>DK3110I-4TP1S-ST</b>	10/100/1000Base-T to 1000Base-X unmanaged industrial PoE switch with 4*10/100/1000Base-T PoE ports and 1*1000Base-X ST port, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C~+75°C