

16*10/100/1000Base-T Unmanaged Industrial Ethernet Switch DK3110I-16T



Features

- > 16*10/100/1000Base-T RJ45 ports
- > Redundant power DC 12-58V input with polarity reverse/over-voltage/over-current protection
- > Support one output relay alarm(terminal block Pin 5/6) for DC power failure
- Support powerful Dip switch function:
 - 1.Port isolation; 2. Flow control; 3. QoS(1-2 ports); 4.Broadcast storm restrain
- Support 10K Bytes Jumbo frame
- > Support 6KV 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 DPTEK DK3110I-16T is the highly reliable industrial Ethernet switch with 16-port 10/100/1000-T RJ45. It is featuring with port isolation, flow control, QoS(1-2 ports) and broadcast storm restrain function, which all can be configured by the Dip switch on the top panel.

DK3110I-16T is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 12-58VDC, redundant power design with polarity



reverse/over-voltage/over-current 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. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and critical.

Technical specification

Model No.	DK3110I-16T	
Interface	Fiber ports	Copper RJ45 ports
	0	16
Ethernet	16*10/100/1000Base-T	
Alarm port	One relay output for power failure. Alarm relay current carry ability: 1A@24VDC	
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	
Dip Switch	 Port isolation Flow control QoS(1-2 ports) Broadcast storm restrain 	
LED Indicators		
P(Power indicator) Green	Off: the device is power off or failed	
	On: the device power on is normal	
S(System indicator) Red	Off: the chip is normal	
	On: the chip read/write is unnormal	
1-16 (Copper ports)	Green indicators	Yellow indicators
	Off: ports link down	Off: port on 10/100M
	On: ports link up	On: port on 1000M
	Blinking: data on TX/RX	
	Power parameters	
Input voltage	12-58VDC, redundant power input	
Input current	5.6A Max	
Total power consumption	Full loading≤8W	
Connector	Removable 6-pin terminal block, Pin 5-6 for relay alarm output	

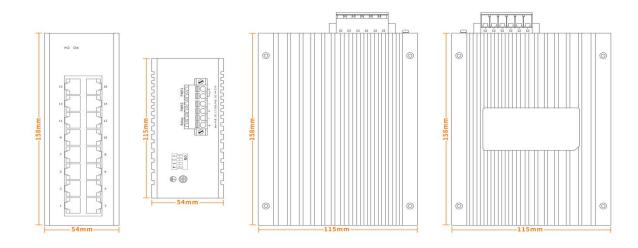


Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
Switching features		
Switching capacity	32G	
Packet forwarding rate	47.6Mpps	
MAC address table	8K	
VLAN	4K	
Buffer	2M	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
Network Topology		
Star topology	Support	
Bus topology	Support	
Tree Topology	Support	
Mechanical structure		
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	54*115*158mm	
Weight	1.37 Kg	
	Operating environment	
Operating temperature	-40℃~+75℃	
Storage/transportation temperature	-40℃~+85℃	
Relative humidity	5%~95% (non-condensing)	
	EMI: FCC Part 15B Class A	
Industry standard	Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us)	
·	Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us)	



	RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m	
	EFT: IEC 61000-4-4 power interface: 4K; Ethernet ports: 2K	
	CS: IEC 61000-4-6 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	
Certification	CE/FCC/RoHS	
Warranty	5 years	

Structure diagram



Order information

Model	Description
DK3110I-16T	Unmanaged Industrial Ethernet switch with 16*10/100/1000Base-T RJ45 ports, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40°C ~+75°C