

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.

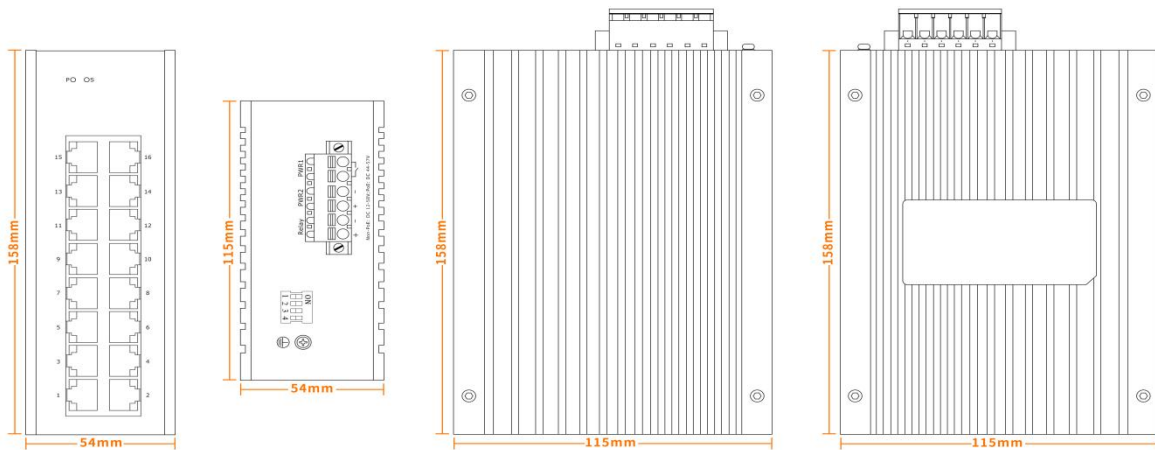
Technical specification

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	<ol style="list-style-type: none"> 1. Port isolation 2. Flow control 3. QoS(1-2 ports) 4. 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)
Industry standard	EMI: FCC Part 15B Class A
	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