8*10/100/1000Base-T + 2*1000Base-X

Unmanaged Industrial Ethernet Switch

DK3110I-8T2S   Series

Features

➤ 8*10/100/1000M RJ45 ports, 2*1000Base-X SFP (/SC/ST/FC optional) fiber ports

➤ DC 12~58V input, redundant power supply with polarity reverse/over-voltage/over- current protection

➤ Powerful Dip switch function:

   1. Port isolation   2. Flow control;   3. QoS;   4. Broadcast storm restrain

➤ 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℃ ~+75℃

Overview

The DPTEK DK3110I-8T2S series are the unmanaged industrial grade Ethernet switch with 8-port 10/100/1000-T RJ45 and 2-port 1000Base-X fiber optical interfaces. They are 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-8T2S series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, such as wide range power input 12-58VDC, 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.
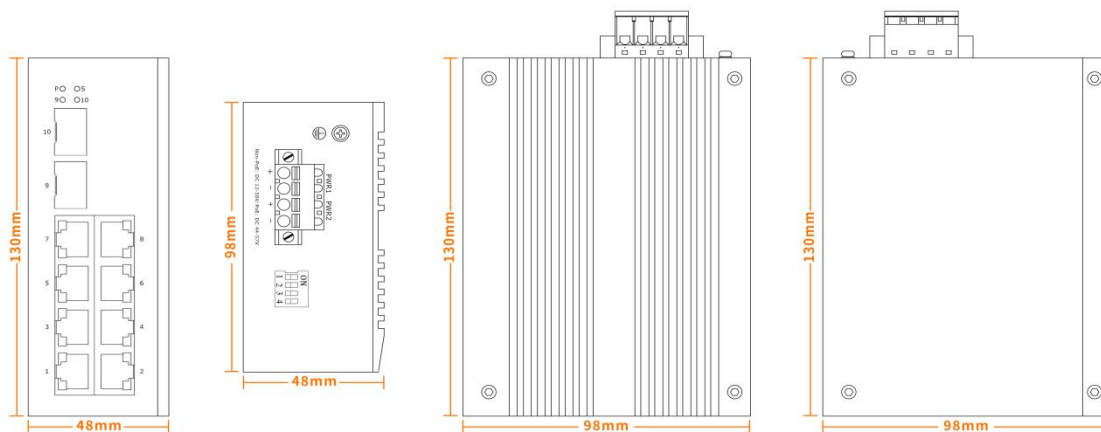
Technical specification

Model No.	DK3110I-8T2S			
Interface	Fiber ports		Copper RJ45 ports	
	2		8	
Ethernet	8*10/100/1000Base-T RJ45 2*1000Base-X SFP			
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	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		
	1-8 (Copper ports)	Green indicators		Yellow indicators
		Off: ports link down		Off: port speed is 10/100M
		On: ports link up		On: port speed is 1000M
		Blinking: data on TX/RX		
	9-10 (Fiber ports) Green	Off: ports link down		
		On: ports link up		
		Blinking: data on TX/RX		
Power parameters				
Input voltage	12-58VDC, redundant power input			
Input current	0.6 Max			

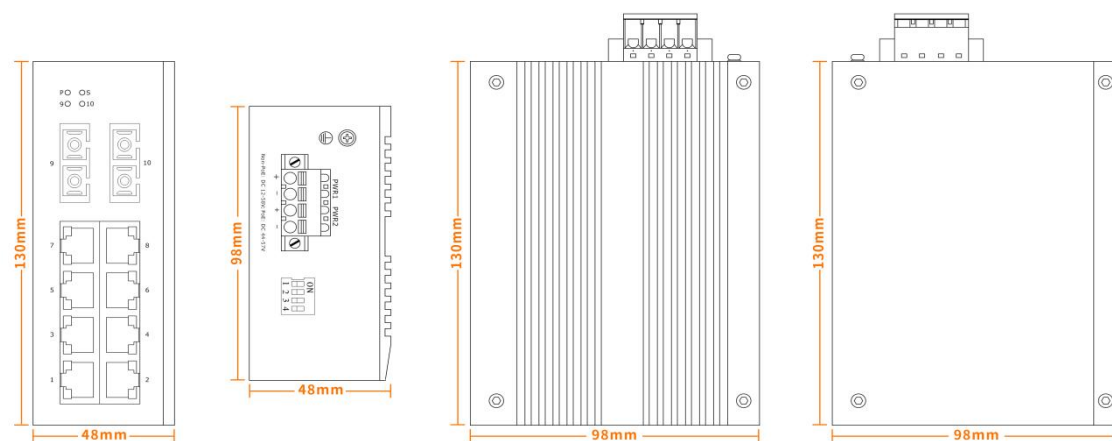|	
Total power consumption	Full loading ≤7.5W
Connector	Removable 4-pin terminal block
Reverse polarity protection	Support
Over-voltage protection	Support
Switching features	
Switching capacity	20G
Packet forwarding rate	14.880Mpps
MAC address table	16K
VLAN	4K
Buffer	2M
Forwarding delay	<5us
Jumbo Frame	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	48*98*130mm
Weight	0.70 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	5%~95%（non-condensing）
Industrial Standard	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
Certification	CE/FCC/RoHS
Warranty	5 years

Structure diagram

SFP model

SC/ST/FC model

Order information

Model	Description
DK3110I-8T2S	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1000Base-X SFP slots, DC12-58V, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C～+75°C
DK3110I-8T2S-SC	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1000Base-X SC ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C～+75°C
DK3110I-8T2S-FC	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1000Base-X FC ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C～+75°C
DK3110I-8T2S-ST	10/100/1000Base-T to 1000Base-X unmanaged industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1000Base-X ST ports, DC12-58V, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C～+75°C