

4*10/100Base-TX + 1*100Base-FX SFP

Unmanaged Industrial Ethernet Switch

DK3100I-4F1FS



Features

- 4*10/100Base-TX RJ45 ports, 1*100Base-FX SFP fiber ports
- DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection
- Dip switch function: 1.Port isolation; 2. Flow control; 3. QoS; 4. Broadcast storm restrain
- Support 9K 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 DPTEK DK3100I-4F1FS is the unmanaged industrial grade Ethernet switch with 4-port 10/100Base-TX RJ45 and 1-port 100Base-FX fiber optical interfaces. 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.

DK3100I-4F1FS is also a high cost-effective easy-to-use device, which provides 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. It is the best choice for

heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions exceed commercial product specifications.

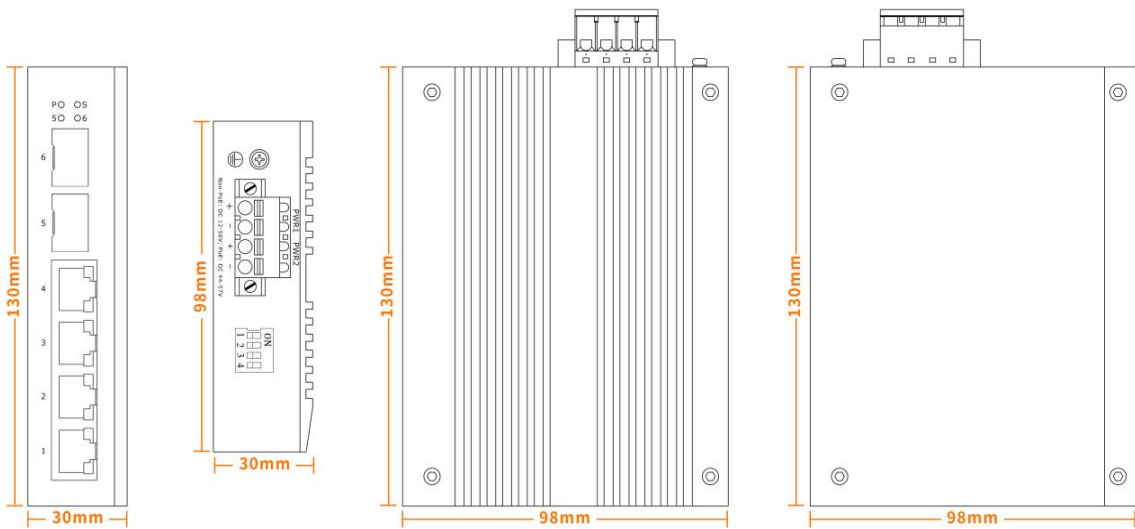
Technical specification

Model No.	DK3100I-4F1FS		
Interface	Fiber ports	Copper RJ45 ports	
	1	4	
Ethernet	4*10/100Base-TX RJ45 1*100Base-FX SFP		
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u Fast 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	
	1-4(Copper ports)	Green indicators	Yellow indicators
		Off: ports link down	Off: port speed is 10M
		On: ports link up	On: port speed is 100M
		Blinking: data on TX/RX	
	5-6 (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	0.5A Max		
Total power consumption	Full loading ≤3W		
Connector	Removable 4-pin terminal block		
Reverse polarity protection	Support		

Over-voltage protection	Support
Switching features	
Switching capacity	1G
Packet forwarding rate	0.744Mpps
MAC address table	2K
VLAN	2K
Buffer	2Kbits
Forwarding delay	<100us
Jumbo Frame	Support 9Kbytes
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	30*98*130mm
Weight	0.55 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



Order information

Model	Description
DK3100I-4F1FS	10/100Base-TX to 100Base-FX unmanaged industrial Ethernet switch with 4*10/100Base-TX RJ45 ports and 1*100Base-FX SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Operation temperature: -40°C~+75°C