

8*10/100/1000Base-T PoE + 4*1G/2.5G/10G Base-X SFP+

Layer 2 Managed Industrial PoE Switch DK3210MI-8TP4X



Features

- 8*10/100/1000Base-T RJ45 PoE ports, 4*1G/2.5G/10G Base-X SFP+ slots
- > DC 44-57V input, redundant power supply with polarity reverse/over-voltage/over-current protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support Support one digital output for relay alarm (terminal block Pin 5/6)
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP,MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/PoE management/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- > Support G.8032 ERPS protocol, recovery time ≤20ms
- > 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 DK3210MI-8TP4X is the highly reliable managed industrial PoE switch with 8-port 10/100/1000-T PoE and 4-port 1G/2.5G/10G Base-X SFP+ slots. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. It supports ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. DK3210MI-8TP4X also supports



robust layer 2 management function, which can fulfill the special needs of industrial automation applications.

DK3210MI-8TP4X is a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 44-57VDC, redundant power design with polarity reverse 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. They are 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.	DK3210MI-8TP4X	
Interface	Fiber ports	Copper RJ45 ports
	4	8
Ethernet	8*10/100/1000Base-T RJ45 PoE 4*1G/2.5G/10G Base-X SFP+	
Management port	1*RJ45 Console port	
Alarm port	One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC	
	IEEE 802.3 10Base-T Ethernet	
	IEEE 802.3u 100Base-TX Ethernet	
	IEEE 802.3ab 1000Base-T Ethernet	
	IEEE 802.3z 1000Base-X Ethernet	
	IEEE 802.3ae 10Gb/s Ethernet	
Standard	IEEE802.3x Flow Control and Back Pressure	
	IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol	
Standard	IEEE 802.1Q VLAN	
	ITU-T G.8032 ERPS	
	IEEE 802.1X Port Authentication Network Control	
	IEEE 802.1ab LLDP	
	IEEE 802.3ad LACP	
	IEEE802.3af PoE	
	IEEE802.3at PoE+	
	LED Indicators	
P (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
S(System status indicator)	Blinking: device initialization	On: device on normal operation
1-8 (Copper ports indicators)	Off: ports link down	
Green	On: ports link up	



	Blinking: data on TX/RX			
1-8(PoE status indicators) Yellow	Off: PoE not working			
	On: PoE working			
9-12(Fiber ports indicators) Green	Off: ports link down			
	On: ports link up			
	Blinking: data on TX/RX			
Power parameter				
Input voltage	44-57VDC, redundant power input			
Input current	5.8A Max			
Total power consumption	Full loading without PoE ≤18W			
	PoE power budget≤ 240W			
Connector	Removable 6-pin terminal block, Pin 5-6 for relay alarm			
Reverse polarity protection	Support			
Over-voltage protection	Support			
Over-current protection	Support			
	Layer 2 function			
	Support GE port aggregation			
	Support 2.5GE aggregation			
Port aggregation	Support 10GE aggregation			
	Support static aggregation			
	Support dynamic aggregation			
	Support IEEE802.3x flow control,			
Port features	Support port in lating			
	Support port isolation			
	Support network storm suppression based on port bandwidth percentage Support access mode			
VLAN	Support trunk mode			
	Support trank mode			
	Mac Based VLAN			
VLAN Classification	IP Based VLAN			
	Protocol Based VLAN			
	Port-based QinQ			
QinQ	VLAN-based QinQ			
	Flow-based QinQ			
Port mirroring	Many to one port mirroring			
Ring network protocol	Support STP、RSTP、MSTP			
	Support G.8032 ERPS protocol, single ring, sub Ring and associated sub			



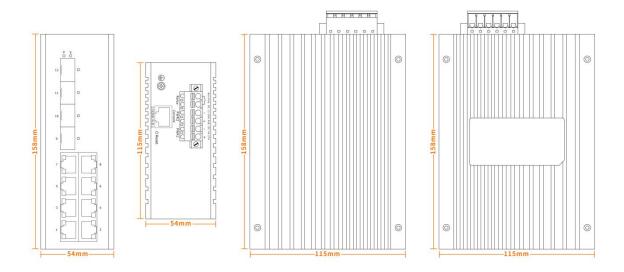
	ring
	Recovery time ≤20ms Support DHCP Client
DHCP	Support DHCP Snooping
	IGMP V1,V2,V3
Multicast	IGMP snooping
ACL	IP Standard ACL
	MAC extend ACL
	IP extend ACL
	Support QoS Class, Remarking
	Support SP, WRR queue scheduling
QoS	Ingress Port-based Rate-limit
	Egress Port-based Rate-limit
	Support Policy-based QoS
	Support Dot1x, port authentication, MAC authentication, RADIUS service
Converted	Support port-security
Security	Support IP Source Guard, IP/Port/MAC binding
	Support ARP-check and ARP packet filtering for illegal users
	Support port isolation
	Support LLDP
	Support user management and login authentication
	Support SNMPV1/V2C/V3
	Support web management, HTTP1.1, HTTPS
	Support Syslog and alarm grading
	Support RMON(Remote Monitoring) alarm
	Support NTP
Management &	Support temperature monitoring
maintenance	Support Ping , TRACERT
	Support optical transceiver DDM function
	Support TFTP Client
	Support Telnet Server
	Support SSH Server
	Support IPv6 Management
	Support PoE management Support TFTP, web upgrading
	Switching features
Switching capacity	96Gbps
Packet forwarding rate	142.8Mpps
MAC address table	16K
VLAN	4K



Buffer	12M bit	
Forwarding delay	<5us	
Jumbo Frame	Support 10Kbytes	
MDX/MIDX	Support	
Watchdog	Support	
Mechanical structure		
Case protection	IP40	
Installation method	Din-rail	
Dimension(W*D*H)mm	54*115*158mm	
Weight	1.17 kg	
Operating environment		
Operating temperature	-40℃~+75℃	
Storage/transportation temperature	-40℃~+85℃	
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH	
Industrial 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)	
EMS	RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m	
	EFT: IEC 61000-4-4 4K/2K	
	,	
	CS: IEC 61000-4-6 10V	
EMI	CS: IEC 61000-4-6 10V	
EMI Shock	CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Contact: 8K; Air: 15K	
	CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Contact: 8K; Air: 15K FCC Part 15B Class A	
Shock	CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2	
Shock Free fall	CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2	



Structure diagram



Order information

Model	Description
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