8*10/100/1000Base-T PoE, 2*1G/2.5GBase-X Fiber ports
Layer 2 Lite Managed Industrial PoE Switch
DK3211MI-8TP2S

Overview

The DPTEK DK3211MI-8TP2S series are highly reliable managed industrial PoE switch with 8-port 10/100/1000-T PoE and 2-port 1000/2500Base-X fiber optical interfaces. They comply with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. They support 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. DK3211MI-8TP2S support Web/SNMP/Telnet management, the managed features are such as QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, PoE management, IPV6 management and so on.

DK3211MI-8TP2S series are also high cost-effective easy-to-use devices, which provide 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. 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 crucial.

Features:

- 8*10/100/1000Base-T RJ45 PoE ports, 2*1000/2500Base-X SFP(SC/FC/ST optional) ports
- DC 44~57V input, redundant power supply with polarity reverse/over-voltage protection
- Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- Support Layer 2 management function: VLAN/Port Mirroring/IGMP/QoS/LLDP/802.1X/Fiber transceiver DDM /PoE management/IPV6 management/Web/SNMP/Telnet/TFTP/Web upgrading
- Support G.8032 ERPS protocol, recovery time ≤20ms
- 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

Technical specification

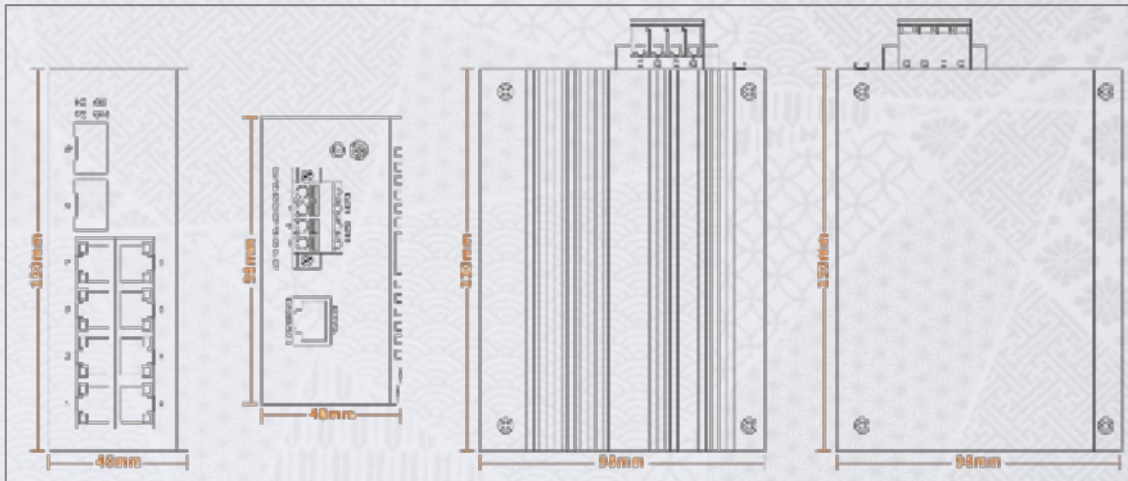| Model No.	DK3211MI-8TP2S	
Interface	Fiber ports	Copper RJ45 ports
	2	8
Ethernet	8*10/100/1000Base-T RJ45 PoE 2*1000/2500Base-X SFP(SC/FC/ST optional)	
Management port	1*RJ45 Console	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE 802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN Tagging 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)	Green indicators	Yellow indicators
	Off: ports link down	Off: PoE not working
	Normal on: ports link up	On: PoE working
	Blinking: data on TX/RX	
9-10 (fiber ports) Green	Off: ports link down	
	Normal on: ports link up	
	Blinking: data on TX/RX	
Power parameter		
Input voltage	44-57VDC, redundant power input	
Input current	5.7A Max	
Total consumption	Full loading without PoE ≤10W PoE power budget ≤240W	
Connector	Removable 4-pin terminal block	
Reverse polarity protection	Support	

Over-voltage protection	Support
Layer 2 function	
Port aggregation	Support static aggregation Support dynamic aggregation
Port features	Support IEEE802.3x flow control, Support Port traffic statistics Support port isolation Support network storm suppression based on port bandwidth percentage
VLAN	Support access mode Support trunk mode Support hybrid mode
Port mirroring	Support many to one port mirroring
Ring network protocol	Support STP, RSTP Support G.8032 ERPS protocol, single ring, sub Ring and associated sub ring Recovery time ≤20ms
Multicast	IGMP V1,V2,V3 IGMP snooping
QoS	Ingress Port-based Rate-limit Egress Port-based Rate-limit
Security features	Support 802.1x, port authentication, MAC authentication, RADIUS service Support port isolation
Management and maintenance	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 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	26 Gbps
Packet forwarding rate	19.344Mpps
MAC address table	16K
VLAN	4K
Buffer	2M 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	48*98*130mm
Weight	0.65 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 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/FC/ST model
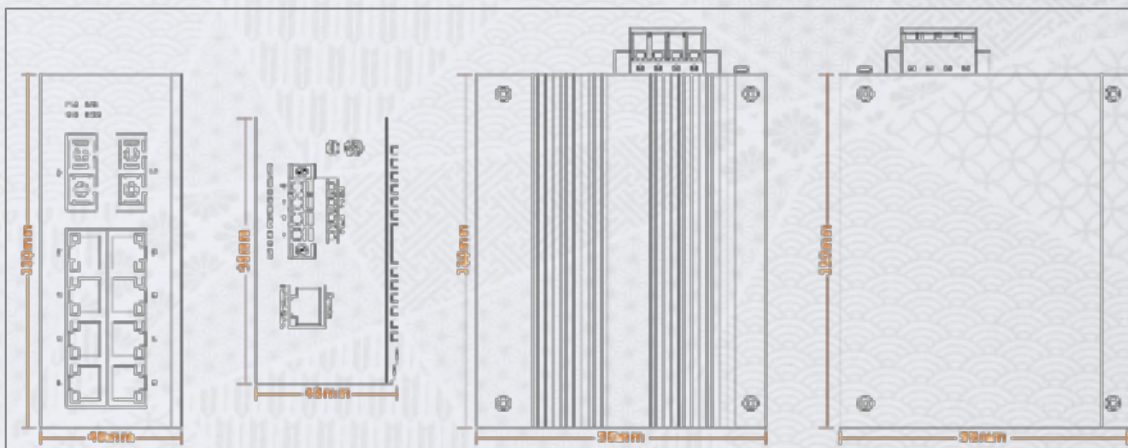
Order information

Model	Description
DK3211MI-8TP2S	Layer 2 Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 PoE ports and 2*1000/2500Base-X SFP slots, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: -40°C～+75°C
DK3211MI-8TP2S-SC (FC/ST optional)	Layer 2 Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 PoE ports and 2*1000Base-X SC (FC/ST optional) ports, complies with IEEE802.3af, IEEE802.3at standard, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C～+75°C

Shenzhen Dptek Technology Co., Ltd.