

8*10/100/1000Base-T + 2*1G/2.5GBase-X

Layer 2 Lite Managed Industrial Ethernet Switch DK3211MI-8T2S





Features

- > 8*10/100/1000Base-T RJ45 ports, 2*1G/2.5GBase-X SFP(SC/FC/ST optional) ports
- > DC 12~58V input, redundant power supply with polarity reverse/over-voltage protection
- Support Layer 2 management function:
 - $VLAN/Port\ Mirroring/IGMP/QoS/LLDP/802.1X/Fiber\ transceiver\ DDM$
 - /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

Overview

The DPTEK DK3211MI-8T2S series are highly reliable managed industrial Ethernet switches with 8-port 10/100/1000-T and 2-port 1G/2.5GBase-X fiber optical interfaces. 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-8T2S support Web/SNMP/Telnet management, the managed features are such as QoS, VLAN, IGMP, Port mirroring, 802.1X, LLDP, Fiber transceiver DDM, IPV6 management and so on.

DK3211MI-8T2S series are also high cost-effective easy-to-use devices, which provide essential industrial Ethernet networking function, including wide range power input 12-58VDC, 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.

Technical specification

Model No.	DK3211MI-8T2S			
Interface	Fiber ports	Copper RJ45 ports		
	2	8		
Ethernet	8*10/100/1000Base-T RJ45 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			
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: port speed 10/100M		
	Normal on: ports link up	On: port speed 1000M		
	Blinking: ports receiving data			



9-10 (fiber ports) Green	Off: ports link down		
	Normal on: ports link up		
	Blinking: receiving data		
Power parameter			
Input voltage	12-58VDC, redundant power input		
Input current	1A Max		
Total consumption	Full loading ≤ 10 W		
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		
	Support IEEE802.3x flow control,		
Bud fortune	Support Port traffic statistics		
Port features	Support port isolation		
	Support network storm suppression based on port bandwidth percentage		
	Support access mode		
VLAN	Support trunk mode		
	Support hybrid mode		
Port mirroring	Support many to one port mirroring		
	Support STP、RSTP		
Ring network protocol	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		
	Lgress Fort-based Nate-IIIIIIt		
Security features	Support 802.1x, port authentication, MAC authentication, RADIUS service		
	Support port isolation		
	Support LLDP		
Management and maintenance	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		



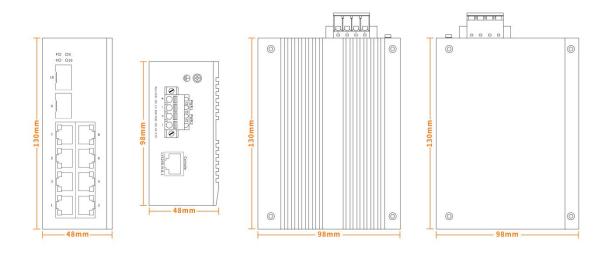
	Support Ping , Tracert	
	Support optical transceiver DDM function	
	Support TFTP Client Support Telnet Server	
	Support SSH Server	
	Support IPv6 Management	
	Support PoE management	
	Support TFTP, web upgrading	
Switching features		
Switching capacity	26 Gbps	
Packet forwarding rate	38.6Mpps	
MAC address 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	
	Operating environment	
Operating temperature	-40℃~+75℃	
Storage/transportation temperature)	-40℃~+85℃	
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH	
	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)	
Industrial Standard	DIP: IEC 61000-4-11 Level 3 (10V)	
	ESD: IEC 61000-4-2 Level 4 (8K/15K)	
	Shock: IEC 60068-2-27	



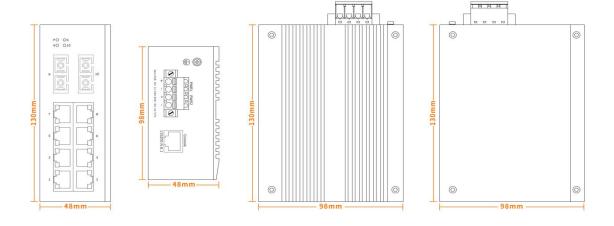
	Free fall: IEC 60068-2-32
	Vibration: IEC 60068-2-6
Certification	CE/FCC/RoHS
Warranty	5 years

Structure diagram

SFP model



SC/FC/ST model





Order information

Model	Description
DK3211MI-8T2S	Layer 2 Managed industrial Ethernet switch with $8*10/100/1000Base-T$ RJ45 ports and $2*1G/2.5GBase-X$ SFP slots, DC12-58V input, redundant dual power supply, Din-rail installation. Fiber port transmission distance depending on the SFP module; Operation temperature: $-40°C\sim+75°C$
DK3211MI-8T2S-SC	Layer 2 Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X SC ports, DC12-58V input, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C \sim +75°C
DK3211MI-8T2S-FC	Layer 2 Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X FC ports, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C \sim +75°C
DK3211MI-8T2S-ST	Layer 2 Managed industrial Ethernet switch with 8*10/100/1000Base-T RJ45 ports and 2*1G/2.5GBase-X ST ports, redundant dual power supply, Din-rail installation; Multi-mode/Single mode/ dual fiber/single fiber, 550m -100KM optional; Operation temperature: -40°C \sim +75°C