

## 24\*10/100/1000Base-T + 4\*1G/2.5GBase-X SFP

### Layer 2+ Managed PoE Switch

#### DK2210M-24TP4S-S

#### Overview

The DPTEK DK2210M-24TP4S-S is the highly reliable Layer 2+ managed PoE switch with 24-port 10/100/1000Base-T RJ45 PoE and 4-port 1G/2.5GBase-X SFP. The DK2210M-24TP4S-S provides comprehensive end to end QoS as well as flexible and rich management, security settings, which can meet the high speed, secure and smart requirement for small and medium-size enterprise networks based on cost effective price. It supports G.8032 ERPS, MSTP/RSTP/STP redundancy technologies, IPv4/IPv6 static routing, DHCP server and robust Layer 2 management and secure function, which all making the DK2210M-24TP4S-S performs effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications. With total power consumption up to **280W**, it offers a rack-mountable, affordable, safe and reliable power solution for SMBs deploying Power over Ethernet networks, or requiring enhanced data security and network traffic management.

#### Picture



#### Features

- 4\*1G/2.5G SFP slots uplink, 24\*10/100/1000M RJ45 PoE ports downlink, 1\*RJ45 console port
- Complies with IEEE802.3af and IEEE802.3at PoE standard
- Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- Layer 2 features: VLAN; ERPS, STP/RSTP/MSTP; Link aggregation, IGMP snooping, port mirroring, QinQ, 802.1X, port isolation, RMON, NTP client, DHCP snooping/client, Ping/Tracert test, ACL, QoS and SFP DDM function
- Management and maintenance: IPv4 and IPv6 management; Support Web, SNMP, CLI, Telnet/SSH management method; Support user management, PoE management, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP
- Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 4KV Power surge protection, IEC 61000-4-5 Level X (8/20us)

- Support 4KV Ethernet ports surge protection, IEC 61000-4-5 Level 4 (10/700us)
- Support fan speed control
- Operation temperature: 0°C ~+ 50°C

## Technical specification

Model No.	DK2210M-24TP4S-S	
Interface	Fiber ports	Copper RJ45 ports
	4	24
Ethernet	24*10/100/1000Base-T RJ45 PoE 4*1000/2500Base-X SFP	
Management port	1*RJ45 Console port	
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 IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP IEEE 802.3af PoE IEEE 802.3at PoE+	
LED Indicators		
PWR (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
SYS (System status indicator)	Blinking: device initialization	On: device on normal operation
1-24(Woking status indicator) Green/Red/Yellow	Green indicator on: ports link up	
	Green indicator blinking: data on TX/RX (PoE not working)	
	Red indicator on: PoE working	
	Yellow indicator on: ports link up and PoE working	
	Yellow indicator blinking: data on TX/RX and PoE working	
25-28 (Fiber ports indicators)	Off: ports link down	

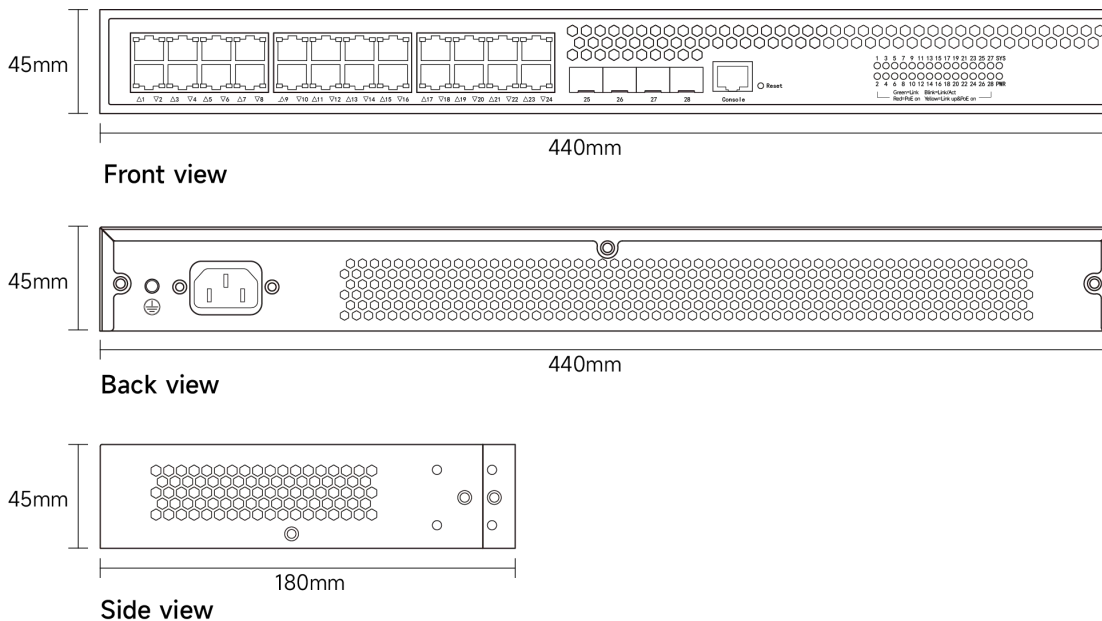
Green	On: ports link up
	Blinking: data on TX/RX
<b>Power parameter</b>	
Power supply	VAC input Rated voltage range: 100-240V Frequency: 50/60Hz
Total power consumption	Full loading $\leq 24W$ PoE power budget $\leq 248W$
<b>Layer 2 functions</b>	
Port aggregation	Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port features	Support IEEE802.3x flow control Support interface counters Support port isolation Port mirroring (One-to-One, Many-to-One) Support loop detection (Port-based; VLAN-based) Support broadcast storm suppression (broadcast; unknown multicast; unknown unicast)
Mac-address table management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	Normal mode Fixed mode Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Port mirroring	Many to one port mirroring
IEEE802.1w RSTP	STP RSTP MSTP

G.8032 ERPS protocol	Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms
Loop detect	Loop detect based on ports Loop detect based on ports and VLAN
<b>Multicast functions</b>	
IGMP snooping	IGMP snooping
<b>Security functions</b>	
ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
802.1x	Port access control Mac-address access control RADIUS server
Port-security	Port-security
IP source guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control
<b>Management &amp; Maintenance functions</b>	
User Management	Support password protection Support user authorization management
SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI management	Console/Telnet command line management
RMON	Support RMON(Remote Monitoring) alarm
Firmware upgrade	Firmware upgrade
Fault Detection	Ping/Traceroute Support optical transceiver DDM function
Cable detection	Support copper port cable detection
PoE management	Support 802.3af/802.3at Support PD watchdog

	Support PoE priority management
	Support Max PoE power configuration for each port
	Support alarm waterline configuration
	Support reserved power configuration
<b>NTP</b>	Network Time Protocol
<b>Syslog/Debug</b>	Syslog/Debug Syslog send to three servers
<b>Configuration import/export</b>	Support FTP/TFTP remote import/export
<b>Dual partition management</b>	Support dual partition switching
<b>Application Protocol Functions</b>	
<b>DHCP Snooping</b>	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
<b>DHCP client</b>	Support DHCP client
<b>Telnet server</b>	Support telnet server
<b>Telnet client</b>	Support telnet client
<b>SSH server</b>	Support SSH server
<b>TACACS</b>	Support TACACS (the terminal access controller accesses the control system)
<b>sflow</b>	Support network traffic analysis
<b>TFTP</b>	Support TFTP Client
<b>Layer 3 functions</b>	
<b>ARP</b>	ARP table aging
<b>DHCP server</b>	
<b>IPv4 / IPv6</b>	static routing
<b>Switching features</b>	
<b>Switching capacity</b>	68Gbps
<b>Packet forwarding rate</b>	101Mpps
<b>MAC address table</b>	16K
<b>VLAN</b>	4K
<b>Buffer</b>	12Mbit
<b>Forwarding delay</b>	<5us
<b>Jumbo Frame</b>	Support 10Kbytes

<b>MDX/MIDX</b>	Support
<b>Watchdog</b>	Support
<b>Mechanical structure</b>	
<b>Installation method</b>	Desktop; Rack-mount
<b>Dimension(W*D*H)mm</b>	440*180*45mm
<b>Weight</b>	2.77kg
<b>Operating environment</b>	
<b>Operating temperature</b>	0°C-50°C
<b>Storage/transportation temperature</b>	0°C-50°C
<b>Relative humidity</b>	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
<b>Certification</b>	CE/RoHS/FCC
<b>MTBF</b>	> 100,000 hours

### Structure diagram



## Order information

Model	Description
<b>DK2210M-24TP4S-S</b>	Layer 2+ managed PoE switch with 4*1G/2.5G SFP slots and 24*10/100/1000M RJ45 PoE ports, AC 100-240V 50/60Hz, total power consumption 280W