

**24\*10/100/1000Base-T + 4\*1G/2.5GBase-X SFP****Layer 2+ Managed Ethernet Switch****DK2210M-24T4S-S****Overview**

DPTEK DK2210M-24T4S-S is the highly reliable Layer 2+ managed Ethernet switch with 24-port 10/100/1000Base-T RJ45 and 4-port 1G/2.5GBase-X SFP. The DK2210M-24T4S-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-24T4S-S performs effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications.

**Picture****Features**

- 4\*1G/2.5G SFP slots uplink, 24\*10/100/1000M RJ45 ports downlink, 1\*RJ45 console port
- 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, system log, configuration upload/download through web interface, firmware upgrade via HTTP/TFTP/USB
- 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-24T4S-S	
Interface	Fiber ports	Copper RJ45 ports
	4	24
Ethernet	24*10/100/1000Base-T RJ45 4*1000/2500Base-X SFP	
Management port	1*RJ45 Console port (115200,8,N,1)	
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	
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 (Copper ports indicators) Green	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
1-24 (Copper speed indicators) Yellow	Off: ports on 10/100M	
	On: ports on 1000M	
25-28 (Fiber ports indicators) Green	Off: ports link down	
	On: ports link up	

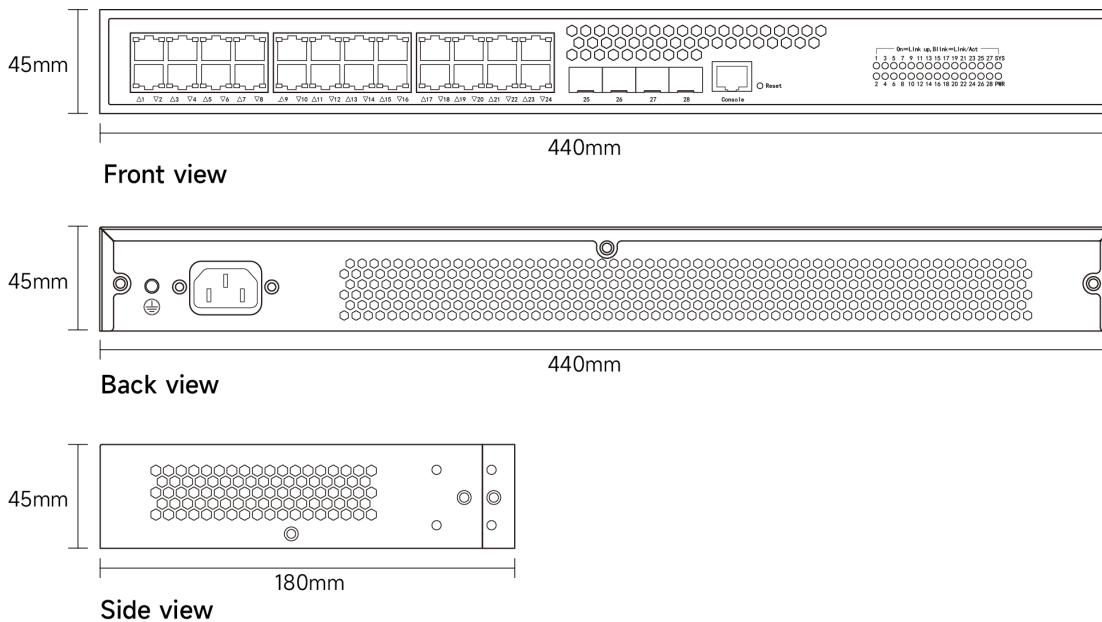
	Blinking: data on TX/RX
<b>Power parameter</b>	
<b>Input voltage</b>	VAC input Rated voltage range: 100-240V Frequency: 50/60Hz
<b>Total power consumption</b>	Full loading ≤24W
<b>Over-current protection</b>	Support
<b>Layer 2 functions</b>	
<b>Port aggregation</b>	Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
<b>Port features</b>	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)
<b>Mac-address table management</b>	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
<b>VLAN</b>	Support access mode Support trunk mode Support hybrid mode
<b>VLAN classification</b>	Mac Based VLAN IP Based VLAN Protocol Based VLAN
<b>GVRP</b>	Normal mode Fixed mode Forbidden mode
<b>QinQ</b>	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ
<b>LLDP</b>	LLDP (Link Layer Discovery Protocol)
<b>Ring network protocol</b>	Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP

	Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time $\leq 20\text{ms}$
<b>L2 Multicast</b>	
<b>IGMP snooping</b>	Support IGMP snooping
<b>Group address</b>	Support group address
<b>Security functions</b>	
<b>ACL</b>	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL
<b>QoS</b>	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
<b>802.1x</b>	Port access control Mac-address access control RADIUS server
<b>Port-security</b>	Port-security
<b>IP source guard</b>	IP Port/MAC binding
<b>ARP-check</b>	Support ARP-check and ARP packet filtering for illegal users
<b>Access control</b>	Support Telnet/SSH/HTTP/HTTPS user access control
<b>Management &amp; Maintenance functions</b>	
<b>User Management</b>	Support password protection Support user authorization management
<b>SNMP</b>	Supporting SNMP V1/V2C/V3 version
<b>Web Management</b>	Web Management Support HTTP V1.1 Support HTTPS
<b>CLI management</b>	Console/Telnet command line management
<b>RMON</b>	Support RMON(Remote Monitoring) alarm
<b>Firmware upgrade</b>	Firmware upgrade
<b>Fault Detection</b>	Ping/Traceroute Support optical transceiver DDM function
<b>Cable detection</b>	Support copper port cable detection
<b>NTP</b>	Network Time Protocol
<b>Syslog/Debug</b>	Syslog/Debug Syslog send to three servers

Configuration import/export	Support FTP/TFTP remote import/export
Dual partition management	Support dual partition switching
<b>Application Protocol Functions</b>	
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP client	Support DHCP client
Telnet server	Support telnet server
Telnet client	Support telnet client
SSH server	Support SSH server
TACACS	Support TACACS (the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client
<b>Layer 3 functions</b>	
ARP	ARP table aging
<b>DHCP server</b>	
IPv4 / IPv6	static routing
<b>Switching features</b>	
Switching capacity	68Gbps
Packet forwarding rate	101Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
<b>Mechanical structure</b>	
Installation method	Desktop; Rack-mount
Dimension(W*D*H)mm	440*180*45mm
Weight	2.77kg

Operating environment	
Operating temperature	0°C-50°C
Storage/transportation temperature	0°C-50°C
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH
Certification	CE/RoHS/FCC
MTBF	> 100,000 hours

### Structure diagram



### Order information

Model	Description
<b>DK2210M-24T4S-S</b>	Layer 2+ managed Ethernet switch with 4*1G/2.5G SFP slots and 24*10/100/1000M RJ45 ports, AC 100-240V 50/60Hz