

## 48\*10/100/1000Base-T + 4\*1G/2.5G SFP

### Layer 2+ Managed PoE Switch

#### DK2210M-48TP4S

#### Overview

DPTEK DK2210M-48TP4S is a Layer 2+ full gigabit managed PoE switch. It provides high-density performance, Layer 3 static routing with 144Gbps switching capacity. The DK2210M-48TP4S 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. The powerful network security features also make the DK2210M-48TP4S perform effective data traffic control for ISP and enterprise VoIP, video streaming, and multicast applications. With total power consumption up to **440W** (850W optional), 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

- 48\*10/100/1000BASE-T Gigabit Ethernet RJ45 PoE ports, 4\*1G/2.5G SFP slots, 1\*RJ45 console interface for switch basic management and setup
- Complies with IEEE 802.3at, IEEE802.3af standard. Max output power consumption per port can reach 30W(PoE+)
- Smart and standard PoE chipset to detect the PD equipments automatically, never burn the PD equipments
- Layer 3 features: Supports IPv4/IPv6 static routing, DHCP server
- Port aggregation: Supports GE ports, 2.5GE port aggregation, static and dynamic aggregation
- VLAN: Supports access, trunk, hybrid mode and VLAN classification, including the Mac based VLAN, IP based VLAN and protocol based VLAN

- QinQ: Supports port-based, VLAN-based and flow-based QinQ
- Port Mirroring: Many to one port mirroring
- Layer 2 ring network protocol: Supports STP, RSTP, MSTP, G.8032 ERPS protocol, single ring, sub ring
- Multicast: Supports IGMP snooping
- QoS: QoS class, remarking, Supports SP, WRR queue scheduling, Ingress/Egress port-based rate-limit and policy-based QoS
- Security: Support Dot1x, port authentication, mac authentication, RADIUS service; Support port-security, ip source guard, IP/Port/MAC binding, arp-check and ARP packet filtering for illegal users and port isolation
- Management: Supports LLDP, user management and login authentication; SNMPV1/V2C/V3; web management, HTTP1.1, HTTPS; Syslog and alarm grading; RMON (Remote Monitoring) alarm, event and history record; NTP, temperature monitoring; Ping, Tracert and optical transceiver DDM function; Supports TFTP Client, Telnet Server, SSH Server and IPv6 Management; PoE management
- Firmware update, configure backup/restore through Web GUI, FTP and TFTP

## Technical specification

Model No.	DK2210M-48TP4S	
Interface	Fiber ports	Copper RJ45 ports
	4	48
Ethernet	48*10/100/1000Base-T RJ45 PoE 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	

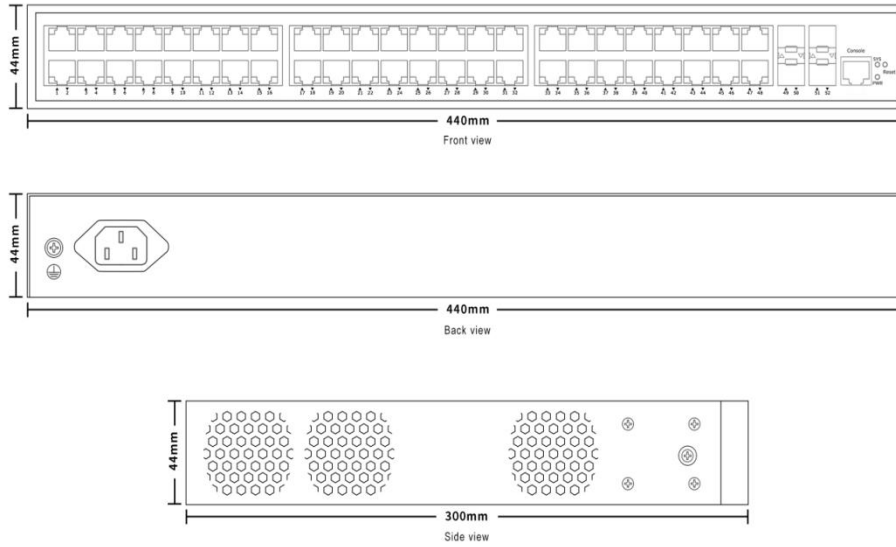
	IEEE 802.3ad LACP IEEE 802.3af IEEE 802.3at	
<b>LED Indicators</b>		
<b>PWR (Power indicator)</b>	Off: the device is power off or failed	On: the device power on is normal
<b>SYS (System status indicator)</b>	Blinking: device initialization	On: device on normal operation
<b>1-48 (Copper ports indicators) Green</b>	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
<b>1-48(PoE status indicators) Yellow</b>	Off: PoE not working	
	On: PoE working	
<b>49-52(Fiber ports indicators) Green</b>	Off: ports link down	
	On: ports link up	
	Blinking: data on TX/RX	
<b>Power parameter</b>		
<b>Input voltage</b>	AC 100-240V	
<b>Total power consumption</b>	Full loading ≤ 440W	
<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	

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 (VLAN-stacking; VLAN-mapping) Flow-based QinQ
LLDP	LLDP (Link Layer Discovery Protocol)
Ring network protocol	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 ≤20ms
<b>L2 Multicast</b>	
IGMP snooping	Support IGMP snooping
Group address	Support group address
<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

<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>PoE management</b>	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

DHCP server	
IPv4 / IPv6	static routing
Switching features	
Switching capacity	144Gbps
Packet forwarding rate	214.2Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support
Mechanical structure	
Installation method	Desktop; Rack-mount
Dimension(W*D*H)mm	440*300*44mm
Weight	4.94kg
Operating environment	
Operating temperature	-0°C~+50°C
Storage/transportation temperature	-10°C~+70°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
DK2210M-48TP4S	Layer 2+ managed PoE switch with 4*1G/2.5G SFP slots + 48*10/100/1000 RJ45 PoE ports, AC 100-240V 50/60Hz, total power consumption 440W (850W optional)