

L3 Features

L3 Routing	Multicast Routing
128 IPv4 Interface entries	Static Multicast Route
256 IPv4 Static Routing entries	PIM-DM/SM
8K IPv4 Dynamic Routing entries	ARP Proxy
RIP v1, v2	DHCP Server/Relay
OSPF v1, v2, v3	VRRP
IGMP v1, v2, v3	BFD

L2 Features

Link Aggregation	Loopback Detection
static link aggregation	Flow Control
802.3ad LACP	802.3x Flow Control
Up to 64 aggregation groups, containing 8 ports per group	Port Mirroring
Spanning Tree Protocol	One-to-One
802.1D STP	Many-to-One
802.1w RSTP	Flow-Based
802.1s MSTP	Tx/Rx/Both
32 MSTP Instance	LLDP, LLDP-MED
STP Security: Loop back detection, TC Protect, BPDU Filter/Protect, Root Protect	

L2 Multicast

1024 IGMP groups	MLD Snooping
IGMP Snooping	MLD v1/v2/v3 Snooping
IGMP v1/v2/v3 Snooping	MLD Snooping Querier
IGMP Fast Leave	Fast Leave
MVR	Limited IP Multicast
IGMP Snooping Querier	Static Multicast Forwarding
Limited IP Multicast	
Static Multicast Forwarding	

VLAN

VLAN Group	VLAN VPN (QinQ)
4K VLAN Groups	GVRP
802.1Q tag VLAN	Private VLAN
MAC VLAN	
Protocol VLAN	
Port-based VLANs	
Up to 4096 VLAN	

support Voice VLAN, can configure QoS for voice data
802.1Q VLAN

QoS

Class of Service	Diffserv
Port Priority	Diffserv Class
802.1p CoS/DSCP priority	Diffserv Policy
8 Priority Queues	Diffserv Service
Queue Schedule Mode	Auto-VoIP
Bandwidth Control	Voice VLAN
Port/Flow based Rate Limiting	
Storm Control	
802.1p port queue priority algorithm	
Cos/Tos, QoS sign	
WRR (Weighted Round Robin), Weighted priority rotation algorithm	
WRR, SP, WFQ, 3 priority scheduling models	

ACL

VLAN ID	IP Protocol
User Priority	TCP Flag
EtherType	TCP/UDP Port
Standard IP ACL	DSCP/IP TOS
Source IP	
Destination IP	
Time based ACL	

Security

AAA	802.1X
DHCP Snooping	Port based authentication
IP-MAC-Port Binding: Up to 32768 entries	MAC(Host) based authentication
ARP Inspection: Up to 32768 entries	Guest VLAN
IP Source Guard: Up to 1020 entries	Support Radius authentication and accountability
Static/Dynamic Port Security	Port Isolation
Up to 64 MAC addresses per port	MAC Filtering
Broadcast/Multicast/Unicast Storm Control	Secure web management through
kbps/ratio/pps control mode	HTTPS with SSLv3/TLS1.3
IP/Port/MAC based access control	Secure Command Line Interface(CLI)
Defense	management with SSHv1/SSHv2

User port+ IP Address+ MAC Address
ACL based on IP and MAC
Security properties of port based MAC address quantities

Management

Web-based GUI	CPU Monitoring
Command Line Interface(CLI) through console port, telnet	Cable Diagnostics
SNMPv1/v2c/v3	Access Control
SNMP Trap/Inform	SNTP
RMON (1,2,3,9 groups)	System Log
DHCP Option82	Dual Image
	IPv6 Management
	PPPoE Circuit ID
	HTTP/TFTP File Transfer

MIBs

MIB II (RFC1213)	
Interface MIB (RFC2233)	RMON2 MIB (RFC2021)
Ethernet Interface MIB (RFC1643)	Radius Accounting Client MIB (RFC2620)
Bridge MIB (RFC1493)	Radius Authentication Client MIB (RFC2618)
P/Q-Bridge MIB (RFC2674)	Remote Ping, Traceroute MIB (RFC2925)
RMON MIB (RFC2819)	

Spanning Tree

STP(Spanning tree protocol)
RSTP(Rapid spanning tree protocol)
MSTP(Rapid spanning tree protocol)
EPPS(Ring network protocol)
EAPS(Ring network protocol)
802.1x argumentation agreement

Link Aggregation

Max 8 aggregation groups TRUNK, each supports 8 ports

Port Mirror

Many-to-one port mirroring

Loop Guard

Loop protection function, real-time detection, rapid alarm, accurate positioning, intelligent blocking, automatic recovery

Port Isolation

Support downlink ports isolated from each other and communicate with uplink port

Port Flow Control

Half duplex based back pressure control
Full duplex based on PAUSE frame

Line Rate

Support downlink ports isolated from each other and communicate with upstream port

IGMP Snooping

IGMPv1/2/3 and MLDv1/2
GMRP Protocol Registration
Multicast address management, multicast VLAN, multicast routing ports, static multicast addresses

DHCP

DHCP Snooping

Storm Suppression

Unknown unicast, multicast, unknown multicast, storm suppression of broadcast type
Storm suppression based on bandwidth tuning and storm filtering

Cable Sequence

Auto-MDIX; auto identification of straight-through cables and crossover cables

Negotiation Mode

Port supports automatic negotiation (self-negotiation transmission rate and duplex mode)

System Maintenance

Upgrade package upload
System log view
WEB restore factory configuration

Network Management

WEB NMS
CLI management based on Telnet, TFTP, Console
SNMP V1/V2/V3;
RMON V1/V2
RMON Management

Part Number Guidance

NETWORK SWITCH

KP - 08 04 H4 SLMT

1 2 3 4 5

1 Product Type:

KP KDT POE Switch
KC KDT Core Switch
MC Media Converter

2 Number Of Ports:

XX Number Of PoE Port (KP)
XX Number Of Total Port (KC)

3 Number Of Uplink Ports:

01 1 Uplink
02 2 Uplink
03 3 Uplink
04 4 Uplink
07 7 Uplink
08 8 Uplink

4 Transmission Speed:

H2 POE Port @ 100 mbps & Uplink Port @ 100 mbps
H3 POE Port @ 100 mbps & Uplink Port @ 1000mbps
H4 POE Port @ 1000 mbps & Uplink Port @ 1000mbps
H5 POE Port @ 1000 mbps & Uplink Port @ 10000mbps
J3 POE Port @ 100+1000 mbps & Uplink Port @ 1000 mbps

5 Functions:

S Fiber Support Switch
M Layer 2 Management Switch
M3 Layer 3 Management Switch
LM Lite Management Switch
I Industrial
U 90 Watt PSE
F Function Ai
T Transmit Port(Female/Male)
H High Temperature