

DIREKTRONIK

Product Overview



8*1000Mbps SFP Slot and 2G SFP Slots+ 8*1000Mbps RJ45 ports, powerful and flexible enough for users to deploy wireless access points or IP-based network surveillance cameras. The switch also comes equipped with 2G SFP+ slots, expanding your network flexibly. In addition, it provides high performance, enterprise-level QoS, advanced security strategies and

rich layer 2 management features. With all these advanced features, the Switch is an ideal choice for WIFI coverage, Internet cafes, computer rooms, and so on.

Product Features

- Conform to the IEEE802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x standard;
- RJ45 supports automatic port rollover (Auto MDI/MDIX) ;
- Panel lights to monitor working state and help fault analysis;
- Supports IEEE802.3x full duplex flow control and Backpressure half duplex flow control;
- Support Energy-Efficient Ethernet (EEE) function (IEEE802.3az) ;
- Supports a complete lineup of L2 features, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP, Link Aggregation Control Protocol and 802.3x Flow Control function;
- Web, CLI (Console Port, Telnet, SSH), SNMP and RMON bring abundant management policies;
- Data exchange adopts store-and-forward mode and line speed forwarding can be intelligently identified;

Product Specifications

Hardware Specification

Model	20122418
Standard	IEEE 802.3、IEEE 802.3u、IEEE 802.3ab 、IEEE 802.3z、IEEE 802.3x、IEEE 802.1X、IEEE 802.1q 、IEEE 802.1p、IEEE 802.1d 、IEEE 802.1w、IEEE 802.3ad
Interface	8*1000Mbps SFP Slots 8*10/100/1000Mbps RJ45 Ports 2*1000 SFP Slots 1*Console Port
Indicator	PWR (GREEN) 、LNK/ACT(GREEN)、SYS(GREEN)
Network media	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5, 5e cable (≤100m) 1000BASE-T: UTP category 5e, 5 cable (≤100m) 1000BASE-X: MMF, SMF
MAC Address Table	8K, Auto-learning, Auto-aging
Jumbo frame	10000Bytes
Transfer Mode	Store-and-forward
Packet Forward Speed	26.78Mpps
Switching Capacity	36Gbps
Packet Buffer	4.1Mbit
Dimensions(L*W*H)	280*180*44mm
Fan Quantity	One
Green energy saving	IEEE 802.3az
Surge Protection	Common mode±4KV Different mode±2KV
Electrostatic standard	Contact±6KV, air±8KV
Input Power Supply	100-240V/AC 50/60Hz
Operating Temperature	0℃ ~+ 40 ℃
Storage Temperature	-40 ℃ ~ +70 ℃
Operating Humidity	10% ~ 90% non-condensing
Storage Humidity	5% ~ 90% non-condensing
MTBF	>100000 hour

Software Function List

L2 Features	
MAC Address Table	MAC Address Size
	MAC Aging Time
	MAC Filter
	MAC Notification
Basic Management	Console/Telnet/SSH
	Http/Https、SSL/TLS
	FTP/TFTP
	Syslog
	SNMP (v1/v2c/v3)、SNMP Trap
	SNTP/NTP
	CPU protect
	Software/Hardware watchdog
	Firmware Upgrade/Backup
	Ping/Traceroute
Port Config	Bandwidth Control
	Flow Control
	EEE
	MTU
	CFM(802.1ag)
	EFM OAM(802.3ah)
	DDM
	Storm Control
	Port Isolation
	Port Security
	Virtual Cable Test
	ULDP/Cisco UDLD
Discovery	LLDP (802.1ab)
	LLDP-MED
Link Aggregation	Static
	LACP (802.3ad)
	Load Balance(src-mac/dst-mac/src-ip/dst-ip)
	Max groups and ports per group
VLAN	VLAN (802.1Q 4K)
	Access/Trunk/Hybrid
	Private VLAN
	VLAN Filter
	MAC-based VLAN
	Protocol-based VLAN
	IP Subnet-based VLAN
	Voice VLAN
	GVRP/GMRP

	QinQ/Selective-QinQ/Flexible QinQ
	VLAN Translation/N:1 VLAN Translation
	Guest VLAN
Network Loop Detection	Loopback Detection
	ERPS
Spanning Tree	STP/RSTP/MSTP
	MSTP Support 64 instance
	BPDU Guard/Root Guard/BPDU Tunnel
ARP	Static ARP
	ARP Scanning Prevention
	ARP Spoofing Prevention
	ARP Guard
	Gratuitous ARP
	Dynamic ARP Inspection
	ARP Quantity Control
IPv4 Related Function	
ICMP	Anti ICMP Attack
	ICMP Rate Limit
	ICMP Unreachable Drop
IP Forward	Static Route
	Route Aggregation
Control Multicast	DCSCM
Multicast VALN	Multicast VALN
IGMP	IGMP SNOOPING V1/V2/V3
	Fast Leave
	IGMP Proxy
DHCP	DHCP Server
	DHCP Client/BOOTP
	DHCP Relay
	DHCP Snooping
	DHCP Option 82/43/60/61/67
IPv6 Related Function	
IPv6 Basic	IPv6 ND Snooping
DHCPv6	DHCPv6 Server
	DHCPv6 Relay
	DHCPv6 Snooping
	IPv6 SAVI
	Security RA
IPv6 Unicast Routing	Static Route
IPv6 Multicast Routing	MLD v1/V2 Snooping
IPv6 Features	SNMP over IPv6 Support
	HTTP over IPv6 Support
	SSH over IPv6 Support
	DNS over IPv6 Support

	IPv6 ping/traceroute Support
	IPv6 Telnet Support
	IPv6 Radius+ Support
	IPv6 Tacacs+ Support
	IPv6 SNTP/NTP Support
	IPv6 FTP/TFTP Support
	IPv6 IPsec Support
	IPv6 ACL
QoS(Quality Of Service)	
Basic	Trust COS/DSCP
	Trust Port
Scheduling	SP
	WRR
	WDRR
PolicyMap Stream	Based on VLAN
	Based on COS/DSCP
	Aggregate PolicyMap
	Ingress PolicyMap
Policing	CAR Stream Shaping(leak algorithm)
	Ingress Policing
Rewrite	COS/802.1p Priority
	IP Precedence
	IPv4 DSCP/IPv6 DSCP
	drop-precedence
	internal-priority
	Ingress/Egress Rewrite
Queuing	DSCP to DSCP mapping
	DSCP to DP mapping
	DSCP to Queue mapping
	COS to DP mapping
	COS to Queue mapping
ACL	
IP-ACL	SIP/DIP
	IP Protocol
	IP Priority(DSCP, TOS, Precedence)
	TCP, UDP src, dst Port
MAC-ACL	SRC/DST MAC
	VLAN
	COS
	Tag/Untag
IP-MAC ACL	MAC-ACL and IP-ACL
User-defined ACL	Base on user defined profile
ACL Features	Based on time period ACL
	ACL on VLAN

	Based on ACL Stream
Security	
802.1x	Port Based Authentication
	Support EAPoR
	MAC based Authentication
	Guest VLAN
MAB	Based on Port Authentication
	Based on MAC Authentication
MAC Address Count Limit	Based on Port
	Based on VLAN
IP Address Count Limit	Based on Port
	Based on VLAN
Access Management	Based on source mac and IP address
Deny DoS Attack	TCP Flag
	TCP Flagment
	IP Segment
	ICMP
TACACS+	Standard Support
Radius	Standard Support
	Client, Support MD5
SSL	Openssl 1.1.0
Redundancy Related Function	
MRPP	Compatiable ERRP
ULPP	Uplink Protection Protocol
	Smart Link/Monitor Link
ULSM	Uplink State Monitor
Flow Monitor Function	
Mirror	Support one to one, multi to one
	Port based mirror, support ingress, egress, and both
	CPU based mirror
	Flow based mirror
	RSPAN

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