Managed PoE+ Switch DES-42S2MG

8*10/100/1000M + 2*100/1000M SFP slot Managed PoE Switch

Comply with IEEE 802.3, IEEE 802.3u

PoE port support AF/AT intelligent recognition

The power supply total is 120W

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Fixed Port	8*10/100/1000Base-T PoE ports (Data/Power)
	2*100/1000Base-X uplink SFP slot ports (Data)
	1 * RS232 console port (115200, N,8,1)
Ethernet Port	10/100/1000Base-T(X), Auto-sensing,Full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meter)
	100BASE-TX: Cat5 or later UTP (≤100 meter)
	1000BASE-T: Cat5e or later UTP (≤100 meter)
SFP Slot Port	Gigabit SFP optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable	Multi-mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Network Management Type	L2+
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;
	IEEE802.3u 100Base-TX;
	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X
	IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	56Gbps
Forwarding Rate@64byte	14.88Mpps
Dram	1G
Flash	256M
MAC	8K
Buffer Memory	4.1M
Jumbo Frame	10K
LED Indicator	Power:PWR(yellow), system :SYS(green), network ;Link/Act(yellow), POE: PoE (green), ,Fiber port: L/A(green)
Reset Switch	Yes, One-button factory reset
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE
PoE Management	Total power limit of PoE power supply
	PoE output power allocation, off& af &at
	PoE output priority configuration
	PoE working status
	Delay start of power supply
	Scheduling of PoE operation and time
Power Supply Pin	Defaul 1/2 (+), 3/6 (-)
Max Power Per Port	30W; IEEE802.3af/at
Total PWR / Input Voltage	130W (AC100-240V)	250W (AC100-240V)

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Power Consumption	Standby:<8W; Full load:<120W	Standby:<10W; Full load:<240W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 2.3A	Built-in power supply, AC 100~240V 50-60Hz 4.1A
Operation TEMP / Humidity	−20~+55°C;5%~90% RH Non condensing	
Storage TEMP / Humidity	-40~+75°C;5%~95% RH Non condensing	
Dimension (L*W*H)	270*180*45mm	
Net /Gross Weight	<1.7kg / <2.2kg	
Installation	Desktop, 19-inch 1U cabinet	
Lightning protection / protection level	Lightning protection: 4KV 8/20us; Protection level: IP30	
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;	
Warranty	3 years, lifelong maintenance.	
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps. Port temperature protection setting Port green Ethernet Energy-saving setting	
Layer 3 Features	L2+ Network management IPV4/IPV6 management L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs	
VLAN	4K VLAN based on port, IEEE802.1q VLAN based on the protocol VLAN based on MAC Voice VLAN, QinQ configuration Port configuration of Access, Trunk, Hybrid	
Port Aggregation	LACP, Static aggregation Max 5 aggregation groups and 8 ports per group.	
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)	
Industrial Ring Network Protocol	G.8032 (ERPS), Recovery time less than 20ms 255 Ring at most, Max 1024 devices per ring.	
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2, Multicast VLAN	
Port Mirroring	Bidirectional data mirroring based on port	

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| Multicast | IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out |
	MLD Snooping v1/v2, Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
QoS	Diff-Serv QoS, Priority Mark/Remark
	8*Output queues of each port
	802.1p/DSCP priority mapping
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)
	Flow-based Packet Filtering
	Flow-based Redirection
	Flow-based Rate Limiting
ACL	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc. Port-based Issuing ACL.
	ACL based on port and VLAN
Security	User hierarchical management and password protection
	SSH 2.0, SSL, Port isolation,ARP message speed limit
	Broadcast storm control, Backup for host datum
	IEEE802.1X & MAC address authentication
	Mac black holes, IP source protection
	AAA & RADIUS, MAC learning limit
	ARP inspection,Anti-DoS attack
	IP-MAC-VLAN-Port binding
DHCP	DHCP Client, DHCP Snooping,DHCP Server,DHCP Relay
Management	Console/AUX Modem/Telnet/SSH2.0 CLI
	Web Management (HTTPS)
	Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3
	One-key recovery
	NTP, System work log,Ping Test
	Cable Diagnose, LLDP
	CPU instant utilization status view
	NMS – Smart Network Management System Platform (LLDP+SNMP)
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;
	Category 5 Ethernet network cable
	TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network