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DIANA : DMS-8GP-2F

8G + 2G SFP Fully Managed L2 Switch with 150W PoE Power, Supports 250 meters

DMS-8GP-2F L2 Managed Switch is a gigabit PoE Ethernet Switch offering a full suite of L2 features that delivers better cost performance and lower total cost of ownership in Enterprise networks via fiber or copper connections.

DMS-8GP-2F delivers 8 (10M/100M/1G) RJ45 ports, 2 SFP ports, and RJ45 Console port. DMS-8GP-2F provides high HW performance and environment flexibility for SMBs and Enterprises.

DMS-8GP-2F is ideal to deliver management simplicity, optimum user experience, and lower cost. The power budget of 150W makes it easy to install IP Phone, IP Cam, or WiFi-AP. It supports PoE devices up to 250m distance with 10Mbps port speed.

Key Features

- 8*10/100/1000M RJ45 PoE ports，2*SFP ports（mini GBIC）
- Comprehensive security protection system to ensure long-term stable operation of the network
- Rich QoS strategy and ACL access control function, multi-service, efficient integration operation
- Supports port convergence and spanning tree protocol to improve the ability of link redundancy backup
- Provides secure, flexible ways of Web, network management, CLI command line, SNMP, etc.
- Supports network diagnosis, cable inspection, system logs, and other functions
- Friendly maintenance
- Internal power adapter
- Supports AC and DC power in the same switch

Feature-rich Ethernet Switch

It offers comprehensive security features such as IP source guard and ACL to guard your network from unauthorized access. It helps users to build on the market-leading price/performance with L2 Managed GbE PoE switch, and provide secure, reliable and ease of use for enterprise/SMB deployments.

Easy to Install, Configure and Troubleshoot by Device Management System

Its user-friendly interface helps users to manage device intuitively. It supports various IP device types (e.g. IP-phone, IP-camera, WiFi-AP) for end-users to enhance manageability and save time/cost during installation/maintenance stages.

Lower Total Cost of Ownership (TCO) with Energy-efficient Design

It is designed to help customers to reduce power consumption and lower the TCO by Energy Efficient Ethernet (IEEE 802.3az) features. It can be used for customers to build a green Ethernet networking environment.

LAYER 2 SWITCHING	
Key Highlights	8*10/100/1000M RJ45 PoE ports, 2*SFP ports（mini GBIC） Comprehensive security protection system to ensure long-term stable operation of the network Rich QoS strategy and ACL access control function, multi service, efficient integration operation Supports port convergence and spanning tree protocol to improve the ability of link redundancy backup Provides secure, flexible ways of Web, network management, CLI command line, SNMP, etc. Supports network diagnosis, cable inspection, system logs, and other functions Friendly maintenance
Full Gigabit transmission	DMS-8GP-2F provides 8*10/100/1000M adaptive RJ45 PoE ports, all the ports have line speed forwarding capacity. It also provides 2 Gigabit SFP (Mini GBIC) expansion slots for optical fiber module. It fully protects user investment, convenience and fiexibility.
Comprehensive safety protection system	Easy operation, simple network management and combination of ARP attack protection function, completely solves the network ARP spoofing attacks. DMS-8GP-2F supports port security, can limit the number of port MAC address, MAC address effective defense attack. It also supports DoS attack protection to effectively guarantee network security.
Powerful VLAN capabilities	DMS-8GP-2F supports IEEE, 802.1Q, VLAN to meet the needs of different users, make the network more convenient, efficient and safe.
Rich QoS strategy	It supports 3 priority modes based on port, IEEE802.1p and DSCP to guarantee the priority processing of key business data; support traffic control function, and can reasonably allocate bandwidth.
Multilevel access control policy	Powerful hardware ACL capacity supports L2~L4 data stream classification; easy network monitoring, traffic regulation, priority weight markers, and data forwarding control. DMS-8GP-2F supports time-based ACL control, easy to realize the time accurate access control needs. It also supports port and MAC 802.1x based authentication based on user access and easy setup

Reliability	STP/RSTP/MSTP L2 link protection technology greatly improves the ability of fault tolerance. DMS-8GP-2F supports redundancy link, to ensure stable operation of the network. It provides static convergence and dynamic aggregation for convergence patterns. This effectively increases the link bandwidth, improves link reliability, while achieving load balancing and link backup. Supports multicast management, through the IGMP Snooping technology for effective inhibition of multicast overload caused by network congestion.
Secure network management and maintenance	CLI command line (Console, Telnet), Web network, SNMP (V1/V2c/V3), SSH (V1/V2) and other management methods, to achieve fast and convenient network management. DMS-8GP-2F supports user identity classification, filtering and other functions for enhanced security configuration. Supports port data monitoring, real-time monitoring of network status, to easily achieve the global unified management of the network in a convenient and flexible way
Advanced Watchdog Technology	System integration against false system halt, when the system resources are exhausted.
Excellent PoE power supply performance	PoE features comply with IEEE, 802.3af and IEEE 802.3at standards. DMS-8GP-2F automatically detects and identifies equipment in accordance with IEEE, 802.3af and IEEE 802.3at standards, and supply power through PoE. Supports intelligent power supply management, flexible power supply scheduling, conditional restart, conditional shutdown and adapts to complex office environment applications. Supports POE police function which is a real-time automatic device on-line detection function. When the powered equipment crashes DMS-8GP-2F automatically restarts the port power supply, to ensure rapid restoration of the network, without manual operation.

SPECIFICATIONS

Product Description	8G + 2G SFP Fully Managed L2 Switch with 150W PoE Power, Supports 250 meters
Model Name	DMS-8GP-2F
Product Family	Diana
Warranty	3 Year Warranty Pack

PORT CONFIGURATION	
10M/100M/1G RJ45 Port	8
100M/1G/2.5G RJ45 Port	--
100M/1G/10G RJ45 Port	--
100M/1G/2.5G/5G/10G RJ45 Port	--
100M/1G SFP Port	2
GbE RJ45/SFP Combo Port	--
1G/2.5G SFP Port	--
1G/10G SFP+ Port	--
Console Port	RJ45
Total Ports	10

HW PERFORMANCE	
Switching Bandwidth	20Gbps
Forwarding Performance	14.44Mpps
MAC Address	8K
Jumbo Frames	9216 Bytes

ENVIRONMENTAL SPECIFICATION	
Operating Temperature	-20°C to 55°C
Operating humidity	5%~90% Non-condensation
Storage Temperature	-40°C to 75°C

Storage humidity	5%~95% Non-condensation
MECHANICAL SPECIFICATION	
Product size	210(L)*140(W)*45(H)mm
Packing size	260(L)*205(W)*67(H)mm
Weight	1 Kg
FAN Less	Y
POWER SOURCE	
AC Input	AC 100~240V 50~60Hz
DC Input	Y
Dual Input	Y
POE	
Total PoE Budget	150W
Max PoE Power Per Port	30W
PoE Standard	802.3af & 802.3at
Certifications	CE/LVD/RoHS
EN61000-4-5 (for RJ45 Port, Surge 6KV)	Y
L2 SWITCHING	
IEEE 802.3x	Y
IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z	Y
IEEE 802.3ad	Y
IEEE 802.3q 、 IEEE 802.3q/p	Y
IEEE 802.1w、IEEE 802.1d、EEE 802.1S	Y
MAC address learning and aging	Y
VLAN	4k VLANs
Port-based VLANs	Y

802.1Q VLAN	Y
SPANNING TREE	
STP(Spanning Tree Protocol)	Y
RSTP/MSTP(Rapid Spanning Tree Protocol)	Y
ERPS ring network protocol	Y
EAPS ring network protocol	Y
802.1x argumentation agreement	Y
Link Aggregation	Max 8 aggregation groups, each supports 8 ports
Static aggregation	Y
Dynamic aggregation	Y
Port Mirror	Y (Many-to-one)
LOOP GUARD	
Loop protection function	Y
Real-time detection	Y
Rapid alarm	Y
Accurate positioning	Y
Intelligent blocking	Y
Automatic recovery	Y
Port isolation	Y
PORT FLOW CONTROL	
Half-duplex based back pressure control	Y
Full-duplex based on PAUSE frames	Y
Port-based input/output bandwidth management	Y
IGMP SNOOPING	
IGMPv1/2/3 MLDv1/2 Snooping	Y
GMRP protocol registration	Y

Multicast address management	Y
Multicast VLAN	Y
Multicast routing ports	Y
Static multicast addresses	Y
DHCP Snooping	Y
STORM SUPPRESSION	
Unknown unicast, multicast	Y
Unknown multicast	Y
Storm suppression of broadcast type	Y
Storm suppression based on bandwidth tuning	Y
Storm filtering	Y
SECURITY	
User port+IP address+MAC	Y
ACL based on IP and MAC	Y
Security properties of port based MAC address quantities	Y
QOS	
802.1p port queue priority algorithm	Y
Cos/Tos，QOS sign	Y
WRR (Weighted Round Robin)	Y
Weighted priority rotation algorithm	Y
WRR、SP、WFQ，3 priority scheduling models	Y
Port	Auto-MDIX ; Auto negotiation
SYSTEM MAINTENANCE	
Upgrade package upload	Y
System log view	Y

Web restore and factory configuration restore	Y

POE MANAGEMENT	
Open or close port	Y
Standard POE scheduling management	Y
A variety of timing reset function (recently upgraded)	Y
POE Automatic equipment on-line inspection	Y
Voltage, Current and Power display	Y
System total power display and configuration	Y
PoE Watchdog	Y
Automatic/Timed restart when device crashes	Y
IP binding restart	Y
Port power configuration	Y
Overpower indicator	Y
PoE type port configuration (48V/24V)	Y

MANAGEMENT AND MAINTENANCE	
WEB Interface	Y
CLI configuration based on Telnet, TFTP, Console	Y
SNMP V1/V2/V3fiSSH V1/V2	Y
RMON V1/V2	Y

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