DIANA : DMS-24G-4FPP

24G + 4G SFP, L2 Fully Managed Switch, 370W PoE Power

DMS-24G-4FPP switch is L2 Gigabit intelligent switch designed for carrier and MAN networks. It supports comprehensive QoS, enhanced VLAN functions (VLAN VPN, Voice VLAN, QinQ, N:1 VLAN Translation etc), Ethernet Ring Protection Protocol (G.8032), classified bandwidth control, intelligent security control, OAM(Operations, Administration and Maintenance), manageability functions and Triple-Play services which fulfill the network requirements demanded by carrier network, MAN access.

DMS-24G-4FPP switch offers green features like IEEE 802.3az (Energy Efficient Ethernet), Fan-less design feature, which can dramatically lower power consumption, achieve green energy and save the cost for the carrier and MAN users.

Equipped with the full GE ports, PoE and 4 SFP uplink ports, the switch integrates advanced management and security functions to provide performance and scalability

Green Energy

DMS-24G-4FPP complies with IEEE 802.3az (Energy-Efficient Ethernet) standard, dramatically lower power consumption With Innovative port-LED Shut-off function, the user can automatically set the switch port-LED UP or DOWN at a specified time period according to their needs to achieve functional, energy-saving correct results.

Full account of low noise requirements of the environment, DMS-24G-4FPP uses Fanless Design and Smart fan strategies to real-time temperature monitoring system, and reduce the noise pollution.

FEATURES

Simple and Flexible Operation and Maintenance	VCT, DDM (Digital Diagnostic Monitoring) and other features achieve rapid detection of the network failures; reduce operation and maintenance difficulty.
Enhanced Security	DMS-24G-4FPP provide a variety of security mechanisms like SYN Flood, Land, ICMP Flood attack prevention and other DOS class technology, BPDU Guard and Root Guard which avoid accidental topology loops and prevent illegal edge devices to become root cause of unnecessary fiapping. IEEE 1X port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server. Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets and forward by different policies. User-defined ACL provides more flexible access control for users. DMS-24G-4FPP supports DHCP snooping, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrust ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access-control independently. DMS-24G-4FPP support much more L2 security features such as ARP guard, Anti-ARP scanning, and other ARP and MAC Security technology to protect network security, reliability and MAC address filtering and lock-down. Secured Encryption method of data transmission.
High Reliability	DMS-24G-4FPP supports 4 Gigabit uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively improves the scalability and performance of network. 8032 provides <50ms ring recovery protection switching for Ethernet traffic in a carrier ring topology. DMS-24G-4FPP supports G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings and other home networking.
High adaptability VLAN Features	DMS-24G-4FPP supports 802.1Q and port based VLAN as well as MAC based VLAN, Voice VLAN and Protocol VLAN. Abundant QinQ technology including Normal QinQ, Selective QinQ, and Flexible QinQ, gives users maximum freedom to configure QinQ policy. N:1 VLAN Translation feature can translate multiple VLAN tags in the frames from access ports into one specified VLAN Tag. It provides a strong technical support for QoS policy convergence.
Abundant Multicast Features	DMS-24G-4FPP switch also support MVR (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With MVR Trunk function, which could associate multicast VLAN to trunk port, DMS-24G-4FPP combines the VLAN data into the same link, saving lots of resources for users. DMS-24G-4FPP prevents multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated to multicast devices.

SPECIFICATIONS

Product Description	24G + 4G SFP, L2 Fully Managed Switch, 370W PoE Power
Model Name	DMS-24G-4FPP
Product Family	Diana
Warranty	3 Year + 2 Year Warranty Pack

PORT CONFIGURATION

10M/100M/1G RJ45 Port	24
100M/1G/2.5G RJ45 Port	--
100M/1G/10G RJ45 Port	--
100M/1G/2.5G/5G/10G RJ45 Port	--
100M/1G SFP Port	4
GbE RJ45/SFP Combo Port	--
1G/2.5G SFP Port	--
1G/10G SFP+ Port	--
Console Port	1
Total Ports	28

POE FUNCTION

IEEE802.3at (PoE+ 30W)	Y
IEEE802.3af (PoE 15.4W)	Y
UPoE(60W)	--
PoE++ 90W	--

PoE Port	24
Available PoE Power	370W
Power Consumption	390W

HW PERFORMANCE

Switching Capacity	56Gbps
Forwarding rate	41.7Mpps
MAC Address	16K
Jumbo frame	12K
ACL table	2048
Queues per port	8
VLAN table	4K
Cooling	Active

FORWARDING

Store and forward	Y

VLAN

Port-based VLAN	Y
IEEE802.1Q	Y
private VLAN	Y
Protocol VLAN	Y
Voice VLAN	Y

MAC VLAN	Y
Normal QinQ	Y
Selective QinQ	Y
Flexible QinQ	Y
VLAN Translation	Y
N:1 VLAN Translation	Y
IEEE 802.3ac Vlan tagging, IEEE 802.1v	Y
DHCP	
IPv4/IPv6 DHCP Client	Y
IPv4/IPv6 DHCP Relay	Y
Option 82,Option 37/38	Y
IPv4/IPv6 DHCP Server	Y
IPv4/IPv6 DHCP Snooping,	Y
SPANNING TREE	
802.1D STP	Y
802.1W RSTP	Y
802.1S MSTP	Y
Root Guard	Y
BPDU Guard	Y
BPDU Forwarding	Y
L3 Features	
Static Routing	Y

LACP	
8 groups per device/8 ports per group	Y
L2 RING PROTECTION	
MRPP	Y
ITU-T G.8032	Y
Loopback Detection and Loop Protection	Y
Fast Link	Y
IEEE 1588v2	Y
SECURITY	
IP ACL	Y
MAC ACL	Y
MAC-IP ACL	Y
User-Defined ACL	Y
Time Range ACL	Y
ACL on VLAN interface	Y
Storm Control based on packets and bytes	Y
Port Security, MAC Limit based on VLAN and Port	Y
Anti-ARP-Spoofing	Y
Anti-ARP-Scan	Y
ARP Binding	Y
ND Snooping	Y
DAI	Y
IEEE 802.1x	Y

AAA	Y
Radius	Y
TACACS+	Y

MULTICAST	

IGMP v1/v2/v3 snooping	Y
IGMP Fast leave	Y
MVR	Y
MLD v1/v2 snooping	Y
IPv4/IPv6 DCSCM	Y

QOS	

8 Queues Per Port	Y
Bandwidth Control	Y
Flow Redirect	Y
Classification based on ACL	Y
DSCP	Y
VLAN ID	Y
COS	Y
TOS	Y
Control Plane prioritization (CPP) or Equivalent	Y
Single Rate single barrel double color for Policing	Y
Remark DSCP, COS/802.1p, Precedence, TOS	Y

SP, WRR, SWRR, DWRR for Scheduling	Y
Match the IP fragmentation of message	Y

MAINTENANCE AND OPERATION MANAGEMENT

TFTP/FTP	Y
Telnet	Y
CLI	Y
Console	Y
Web/SSL (IPv4/IPv6)	Y
SSH (IPv4/IPv6)	Y
SNMPv1/v2c/v3	Y
SNMP Trap	Y
Public & Private MIB interface	Y
RMON 1,2,3,9	Y
Ping, Trace Route	Y
Radius Authentication	Y
Syslog (IPv4/IPv6)	Y
SNTP/NTP (IPv4/IPv6)	Y
Multiple Configuration Files	Y
Port Mirror, CPU Mirror, RSPAN	Y
VCT, DDM	Y
ULDP(like Cisco UDLD) or equivalent	Y
LLDP/LLDP MED	Y

GREEN ENERGY

IEEE 802.3az (Energy Efficient Ethernet)	Y
Auto Fan Speed Control	Y
LED Shut-off	Y

CERTIFICATIONS AND REGULATORY COMPLIANCES

CE	Y
RoHS	Y
EN61000-4-5	Y
EN 55022 Class A	Y

PHYSICAL SPECIFICATIONS

Dimension(W*H*D)	440mm x 260mm x 43.6mm
Relative Humidity	5%~95%,non-condensing
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Power Input	100~240VAC, 50~60Hz

*ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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