



DIANA : DMS-24G-4F

24G + 4 1G SFP Uplink L2 Gigabit Managed Switch

OVERVIEW

DMS-24G4F 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-24G4F 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.

DMS-24G4F is equipped with the 24 GE ports and 4 SFP uplink ports, the switch integrates advanced management and security functions to provide performance and scalability.

• Green Energy

DMS-24G4F 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-24G4F uses Fanless Design and Smart fan strategies to real-time temperature monitoring system, and reduce the noise pollution.

• Simple and Flexible Operation and Maintenance

Full Ethernet OAM technology (IEEE802.3ah/802.1ag), VCT, DDM (Digital Diagnostic Monitoring) and other features achieve rapid detection of the network failures; reduce operation and maintenance difficulty.

• Enhanced Security

DMS-24G4F provides 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 become root to cause unnecessary flapping.

IEEE 802.1X 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-24G4F 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-24G4F supports much more L2 security features such as ARP guard, Anti-ARP scanning, and other ARP and MAC Security technology to protect network security and reliability.

• High Reliability

DMS-24G4F supports 4 Gigabit uplink ports, which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expandability and performance of network.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. DMS-24G4F support 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-24G4F 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.

specified VLAN Tag. It provides strong technical support for QoS policy convergence.

- **Abundant Multicast Features**

DMS-24G4F also supports 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-24G4F combines the VLAN data into the same link, saving lots of resources for users.

DMS-24G4F can prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices.

SPECIFICATIONS

Model Name	DMS-24G4F
Product Family	Diana
Ports	24 x 10/100/1000Base-T + 4 x 100/1000Base-X (SFP)
Total No of Ports	28
Warranty	Up to 5 Year (3+2*)

HARDWARE SPECIFICATIONS

Switching Capacity	56Gbps
Forwarding Rate	41.7Mpps
MAC ADDRESS	16K
Jumbo Frame	12K
ACL Table	2048
Queues per port	8
VLAN TABLE	4K

PHYSICAL SPECIFICATIONS

Dimension(W×H×D)	442mm x 220mm x 43.6mm
Power Input	100~240VAC, 50~60Hz
Power Consumption	20W
Cooling	Passive
Temperature	Working 0°C~50°C, Storage -40°C~70°C
Relative Humidity	5%~95%,non-condensing
EMC Safety	CE, RoHS

SOFTWARE FEATURES

Forwarding	Store and Forward
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
DHCP	
IPv4/IPv6 DHCP Client	Y
IPv4/IPv6 DHCP Relay	Y
Option 82	Y
Option 37/38	Y
IPv4/IPv6 DHCP Snooping	Y
IPv4/IPv6 DHCP Server	Y
SPANNING TREE	
802.1D STP	Y
802.1W RSTP	Y
802.1S MSTP	Y
Root Guard	Y
BPDU Guard	Y
BPDU Forwarding	Y
LACP	16 groups / 8 ports
L2 RING PROTECTION	

MRPP	Y
ITU-T G.8032	Y
Loopback Detection	Y
Fast Link	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
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	
Queues Per Port	8
Bandwidth Control	Y
Flow Redirect	Y
Classification based on ACL	Y
VLAN ID	Y
COS	Y
TOS	Y
DSCP	Y
Policing Based on Port and VLAN	Y
Single Rate single barrel double color for Policing	Y
Remark DSCP, COS/802.1p	Y
Precedence	Y
TOS	Y
SP	Y
WRR	Y
SWRR	Y
DWRR for Scheduling	Y
Match the IP fragmentation of message	Y
MAINTENANCE AND OPERATION MANAGEMENT	
TFTP/FTP	Y
CLI	Y
Telnet	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	Y
Trace Route	Y
Radius Authentication	Y
Syslog (IPv4/IPv6)	Y
SNTP/NTP (IPv4/IPv6)	Y
Dual IMG	Y
Multiple Configuration Files	Y
Port Mirroring	Y
CPU Mirror	Y
RSPAN	Y
sFlow	Y
OAM EFM	Y
VCT	Y
DDM	Y
ULDP	Y
LLDP/LLDP MED	Y
GREEN ENERGY	
IEEE 802.3az (Energy Efficient Ethernet)	Y
Fanless	Y
LED Shut-off	Y

*All specifications are subject to change without notice.



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