



28-PORT MANAGED

INDUSTRIAL GIGA ETHERNET RACK SWITCH

DDSMGR SERIES



DATA BRIDGE



SYNOPSIS

- DDSMGR 308-16S-4GC Y SERIES IS A HARDENED 28-PORT INDUSTRIAL ETHERNET SWITCH
- IT PROVIDES NON-BLOCKING WIRE-SPEED PERFORMANCE IN HARSH INDUSTRIAL ENVIRONMENT.
- IT ALSO PROVIDES 16-PORT 10/100/1000MBPS SFP +8-PORT RJ45+4G COMBO DELIVERED IN AN IP50 RUGGED, STRONG CASE WITH REDUNDANT POWER SYSTEM.
- ITS SLIM CASE IS SUITABLE FOR SUCH APPLICATIONS AS SURVEILLANCE SYSTEM DEPLOYMENTS, CONTROL MANAGEMENT AND WIRELESS SERVICE
- CAN WITHSTAND CLIMATICALLY DEMANDING ENVIRONMENTS WITH WIDE TEMPERATURE RANGE FROM -40°C TO 80°C.
- THE DDSMGR 308-16S-4GC Y SERIES PROVIDES THE FLEXIBILITY TO ALL KINDS OF 10/100/1000MBPS ETHERNET MEDIA ON RJ-45 PORT AND PERFORMS HIGHLY STABLE FIBER PERFORMANCE.
- THE DDSMGR 308-16S-4GC Y SERIES IS PACKAGED IN A COMPACT IP40 CASE THAT ALLOWS BRACKET MOUNTING TO CABINET

TECHNICAL SPECIFICATIONS

1000Base-FX Port	16 port SFP
1000Base-TX Port	8 port RJ-45 auto-MDI / MDI-X 4G combo (either 4G SFP or 4G RJ45)
Performance Specification	Bandwidth (switch capacity) : 256G Packet Buffer Memory : 16Mbit Packet Forwarding Rate : 131Mpps MAC Address Table : 16K
Maximum Frame Size	10240bytes packet size
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
LED Indicator	Power : Red Fiber : Link 2(Green) Ethernet : Yellow
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-TX: Cat6 or later UTP (≤100 meter)

SOFTWARE SPECIFICATIONS

LAYER 2 FUNCTIONS

Link Aggregation	Static Aggregation Dynamic Aggregation, LACP Supports up to 4 aggregation groups, each group up to 6 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
Port features	Support IEEE802.3x flow control, Support interface counters, Support Storm Control
Mac-address table management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
Mirror	Port-based Mirror
Spanning Tree	IEEE802.1d STP IEEE802.1w RSTP IEEE802.1s MSTP
ERPS (G.8032)	Single Ring, Sub-Ring, Multi-Ring Load balance Recovery Time < 50ms
GVRP	Supported
LLDP	LLDP LLDP-MED
Loop Protection	Supported
VLAN	4094 VLAN Port-based VLAN GVRP

Protocol VLAN	MAC-based VLAN IP Subnet-based VLAN
Voice VLAN	Supported
Port Isolate	Supported
IGMP Snooping	IGMP Snooping IPv4 Static Multicast Source Port Check IGMP Fast Leave IGMP Filter
MLD Snooping	MLD Snooping MLD V2 Snooping IPv6 Static Multicast MLD Fast Leave MLD Filter

SECURITY

ACL	ACL (IP Standard ACL) MAC extend ACL IP extend ACL L2, L3, L4 fields match Log, redirection, mirroring, speed limit
QoS	QoS Class, Remarking SP, WRR queue scheduling Ingress port-based rate-limit Ingress priority-based rate-limit Egress port-based rate-limit Egress queue-based rate-limit Policy-based QoS Storm Control 8 queues per port
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server
Dot1x	Port Access Control

MANAGEMENT & MAINTENANCE FUNCTIONS

User Management	Support password protection
SNMP	Supporting SNMP V1/V2C/V3 version
Web Management	Web Management Support HTTP V1.1 Support HTTPS
CLI management	Console/Telnet command line management
RMON	Statistics Group History Group Alarm Group Events Group
Firmware upgrade	Reversion Upgrade
IPv4/IPv6	Support
CLI	Support
Syslog/Debug	Support
Diagnosis	Ping (IPv4), ping (IPv6) Trace route (IPv4)

POWER

Dual Power Input	AC100-240V
Power Consumption	<30W
Surge protection	± 4KV

MECHANICAL STRUCTURE

Case protection	IP50 Aluminum housing
Installation method	Bracket mounting
Dimension(W*D*H)mm	442 × 195 × 44 mm
Weight	2.8Kg

OPERATING ENVIRONMENT

Operating temperature	-40°C to + 80°C
Storage Temperature	-40°C to + 80°C
Relative humidity	Storage humidity: 5%-95%RH

CERTIFICATIONS TESTED FOR

INDUSTRIAL STANDARD

IEC61000-4-2	(ESD): ±8kV (contact), ±12kV (air)
IEC61000-4-3	(RS): 10V/m (80~1000MHz)
IEC61000-4-4	(EFT): Power Port: ±4kV; Data Port: ±2kV
IEC61000-4-5	(Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
IEC61000-4-6	(CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
IEC61000-4-16	(Common mode conduction): 30V (cont.), 300V (1s)
FCC CFR47 Part 15, EN55032 Class A	Others

ORDERING CODE

DDSMGR 308-16S-4GC Y

DDSMGR	Rack Type L2+ Giga Managed Industrial Ethernet Switch
308	8 *10/100/1000M RJ-45
16S	16 * 1000M SFP slots
4GC	4 * Giga Combo Ports
Y	Fixed