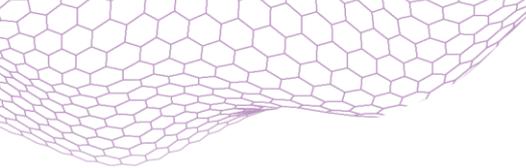


10 PORT LAYER 2+

INDUSTRIAL ETHERNET MANAGED SWITCH-GIGA

DDSMG CF SERIES





SYNOPSIS

- THE DDSMG 308-2S CF IS A FULL GIGABIT L2+ MANAGED INDUSTRIAL ETHERNET FIBER SWITCH
- IT HAS 8 * 10/100/1000BASE-T RJ45 PORTS AND 2 * 100/1000BASE-X SFP FIBER PORTS
- THE DDSMG 308-2S CF HAS L2+ NETWORK MANAGEMENT FUNCTION, SUPPORT IPV4 STATIC ROUTE FORWARDING, COMPLETE SECURITY PROTECTION MECHANISM, ACL/QOS POLICY AND RICH VLAN FUNCTIONS, EASY TO MANAGE AND MAINTAIN. SUPPORT MULTIPLE NETWORK REDUNDANCY PROTOCOLS STP/RSTP/MSTP(<50MS), SUPPORT ERPS RING NETWORK FUNCTION (CONVERGENCE TIME<20MS)
- ROUTING ADDRESS MANAGEMENT, PORT MANAGEMENT, PORT FLOW CONTROL, VLAN DIVISION, IGMP, SECURITY POLICY AND OTHER APPLICATION SERVICE CONFIGURATIONS ARE PERFORMED THROUGH WEB, CLI, SNMP, TELNET AND OTHER NETWORK MANAGEMENT METHODS.
- ALUMINUM ALLOY ENCLOSURE HAS EXCELLENT MECHANICAL STABILITY, CLIMATE ENVIRONMENT ADAPTABILITY, ELECTROMAGNETIC ENVIRONMENT ADAPTABILITY, ETC.),
- PROTECTION LEVEL IS IP40
- DUAL REDUNDANT POWER SUPPLY, LOW POWER CONSUMPTION AND NO FAN.

FEATURES & BENEFITS

1. GIGABIT ACCESS, SFP FIBER PORT UPLINK

- SUPPORT NON-BLOCKING SPEED FORWARDING.
- SUPPORT FULL-DUPLEX BASED ON IEEE802.3X AND HALF-DUPLEX BASED ON BACKPRESSURE.
- SUPPORT GIGABIT ETHERNET PORT AND GIGABIT SFP PORT

2. NETWORK MANAGEMENT AND FAST RING FUNCTION

- STP/RSTP/MSTP/ERPS.
- STATIC AND DYNAMIC AGGREGATION.
- IEEE802. 1Q VLAN, FLEXIBLE VLAN DIVISION, ACCESS, TRUNK AND HYBRID.
- QOS, PRIORITY MODE BASED ON 802. 1P, PORT & DSCP, QUEUE SCHEDULING ALGORITHM INCLUDING EQU, SP, WRR & SP+WRR.
- IGMP SNOOPING V1/V2/V3 MEETS MULTI-TERMINAL HIGH-DEFINITION VIDEO SURVEILLANCE AND VIDEO CONFERENCE ACCESS REQUIREMENTS.
- ALC, FILTER DATA PACKET THROUGH CONFIGURING MATCHING RULES

3. SECURITY

- 802. 1X AUTHENTICATION.
- PORT ISOLATION, STORM CONTROL.
- IP-MAC-VLAN-PORT BINDING

4. STABLE AND RELIABLE

- LOW POWER CONSUMPTION, NO FAN, ALUMINUM ENCLOSURE.
- LED INDICATOR OF PWR, SYS, LINK, L/A.

5. ONE-STOP REMOTE CONTROL AND MANAGEMENT

- HTTPS, SSLV3, AND SSHV1/V2.
- RMON, SYSTEM LOG, LLDP, AND PORT TRAFFIC STATISTICS.
- CPU MONITORING, MEMORY MONITORING, PING TEST, AND CABLE DIAGNOSE.
- WEB MANAGEMENT, CLI COMMAND LINE (CONSOLE, TELNET), SNMP (V1/V2/V3).

TECHNICAL SPECIFICATIONS

INTERFACE

Fixed Port	8* 10/ 100/ 1000Base-T RJ45 ports 2* 100/ 1000Base-X uplink SFP slot ports 1*RS232 console port
Ethernet Ports	Port 1-8 support 10/ 100/ 1000Base-T auto-sensing, full/half duplex Auto MDI/MDI-X
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤ 100 meters) 100BASE-TX: Cat5 or later UTP (≤ 100 meters) 1000BASE-T: Cat5e or later UTP (≤ 100 meters)
SFP Slot Port	Gigabit SFP optical Fiber interface
Wavelength/Distance	Multimode: 850nm 0~550M,1310nm 0~2KM Single mode: 1310nm 0~40KM , 1550nm 0~120KM

POWER

Power Supply	DC12-57V industrial power supply
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HARDWARE FEATURES

Network Management Type	L2+	
Ring network	Supports ERPS ring network function, with a maximum number of rings of 5 and a convergence time of <20ms	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-X, IEEE802.3z 1000Base-X, IEEE802.3x	
Forwarding Mode	Store and Forward (Full Wire Speed)	
Switching Capacity	20Gbps	
Buffer Memory	14.88Mpps	
MAC	8K	
LED Indicator	Power Indicator Light	P :1 Green
	Fiber Indicator Light	F: 1 Green (Link, SDFED)
	On the RJ45 seat	Yellow: Indicate PoE Green: Indicates network working status
Reset Switch	Yes, Press and hold the reset switch for 5s and release it to restore the factory settings	

PHYSICAL CHARACTERISTICS

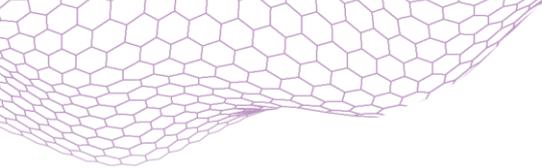
Dimension (L*W*H)	172mm* 145mm*55mm
Installation	Desktop, DIN rail

ENVIRONMENT

Working Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5%~95% (no condensation)

SOFTWARE FEATURES

Port configuration	Auto-negotiation Flow Control Port Mirror: TX/RX/BOTH; Many-to-1 monitor. Traffic statistics
Link Aggregation	Static link aggregation LACP Algorithm based on Source/Destination MAC Algorithm based on Source/Destination IP
MAC Table	Aging Time Static MAC address Dynamic MAC address management
VLAN	4094 Active VLANs 4094 VID 802.1Q Tag VLAN Port VLAN Protocol VLAN MAC VLAN Voice VLAN 802.1ad Q-in-Q tunnelling Private VLAN (Protected port) GARP/GVRP
ACL	256ACLs L2, L3 e L4 Time-based ACL
Spanning tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP) Loop Guard Root Guard TC-BPDU Guard BPDU Guard BPDU Filter



Ring Protection	<20ms G.8032 ERPS Ring
Multicast	256 groups IGMP v1/v2/v3 Snooping, Fast Leave MLD Snooping Multicast VLAN
QOS	port-based CoS 802.1p-based CoS DSCP-based. Scheduling algorithms SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Bandwidth control per port
DHCP	SNMP v1/v2c/v3 with Full Private MIBs RMON 4 groups WEB (HTTP/HTTPS) CLI (Telnet, Console, SSHv1/v2) Firmware upgrade via console/web/TFTP Configuration Backup/Reload Dual Firmware LLDP
Security Features	Port Security MAC Address filter ARP Association (Manual, ARP scanning, DHCP snooping) ARP Protection DoS (Denial of Service) Classification of packages based on: End.MAC, IP End, TCP / UDP Ports, Protocol Type; 802.1x Authentication (port-based e MAC-based) TACACS/TACACS+ Authentication RADIUS Authentication DHCP Filter Guest VLAN SSLv2/SSLv3/TLSv1 SSHv1/SSHv2 Restriction of WEB access based on: IP Address, And. MAC and Port; Port Isolation Loopback detection
Other Features	DNS Client DHCP Relay DHCP Client DHCP Snooping DHCP Option 82 SNTP Client UDLD
Maintenance	Cable Diagnostics Ping SFP DDM (Digital Diagnostics Monitoring) Thermal protection System log (Local and Remote) Memory and CPU Monitoring

L3 FUNCTIONS

Static Routing	IPv4 Unicast: Static Routing (Software Base) IPv6 Unicast: Static Routing (Software Base)
IPV6	IPv6 neighbour discovery (ND) Path maximum transmission unit (MTU) discovery Internet Control Message Protocol (ICMP) version 6 TCPv6/UDPv6 Ping6 Telnet(v6) Http/Https Interface IPV6 ACL IPV6

APPROVALS AND STANDARDS TESTED FOR

IEC61000-4-2	ESD: ±8kV contact discharge, ±15kV air discharge
IEC61000-4-3	RS:10V/m (80~ 1000MHz)
IEC61000-4-4	EFT: power cable: ±4kV; data cable: ±2kV
IEC61000-4-5	Surge: power cable:CM±4kV/DM±2kV; data cable: ±4kV
IEC61000-4-6	radio frequency transmission:10V(150kHz~80MHz)
IEC61000-4-8	power frequency magnetic field:100A/m;1000A/m, 1s to 3s
IEC61000-4-9	pulsed magnet field:1000A/m
IEC61000-4- 10	damped oscillation:30A/m 1MHz
IEC61000-4- 12/ 18	shockwave: CM 2.5kV, DM 1kV
IEC61000-4- 16	common-mode transmission:30V; 300V, 1s
IEC61000-6-2	Common Industrial Standard
IEC60068-2-6	anti vibration
IEC60068-2-27	anti shock
IEC60068-2-32	free fall
CCC, CE mark, commercial, CE/LVD EN62368- 1, FCC Part 15 Class B, RoHS	Certifications
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP40

ORDERING CODE

DDSMG 308-2S CF

DDSMG	Industrial Grade L2+ Giga Managed Ethernet Switch
308	8 * 10/100/1000M Copper Port
2S	2* 100/1000Base-X uplink SFP slot ports
CF	Fixed