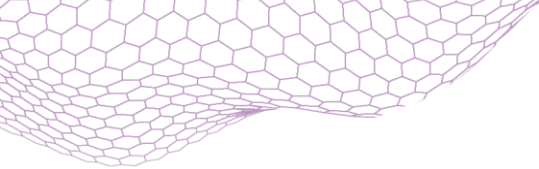


10 PORT LAYER 2+

INDUSTRIAL ETHERNET MANAGED SWITCH-GIGA

DDPSMG FJ SERIES





SYNOPSIS

- THE DDPSMG 308-2S FJ IS A FULL GIGABIT L2+ MANAGED INDUSTRIAL POE ETHERNET FIBER SWITCH
- IT HAS 8 * 10/100/1000BASE-TPOE PORTS AND 2 * 100/1000BASE-X SFP FIBER PORTS
- PORT 1-8 CAN SUPPORT IEEE802.3AF/AT WITH A MAXIMUM POWER OF 30W PER PORT AND A TOTAL POWER OF 240W
- IT CAN AUTOMATICALLY DETECT AND RECOGNIZE POWER-COMPLIANT DEVICES THAT MEET THE STANDARD AND SUPPLY POWER THROUGH THE NETWORK CABLE.
- IT CAN SUPPLY POWER TO POE TERMINAL EQUIPMENT SUCH AS WIRELESS AP, WEBCAM, VOIP, SENSOR THROUGH THE NETWORK CABLE.
- THE DDPSMG 308-2S FJ HAS L2+ NETWORK MANAGEMENT FUNCTION, SUPPORT IPV4 STATIC ROUTE FORWARDING, COMPLETE SECURITY PROTECTION MECHANISM, ACL/QOS POLICY AND RICH VLAN FUNCTIONS.
- SUPPORT MULTIPLE NETWORK REDUNDANCY PROTOCOLS STP/RSTP/MSTP(<50MS), ERPS RING NETWORK FUNCTION WITH CONVERGENCE TIME<20MS TO IMPROVE LINK BACKUP AND NETWORK RELIABILITY.
- IT ALSO SUPPORTS 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, PROTECTION LEVEL IS IP40
- DUAL REDUNDANT POWER SUPPLY, LOW POWER CONSUMPTION, NO FAN.
- IT IS SUITABLE FOR INDUSTRIAL SCENARIOS SUCH AS INTELLIGENT TRANSPORTATION, RAIL TRANSIT, ELECTRIC POWER INDUSTRY, MINING, PETROLEUM, SHIPPING ETC.

FEATURES & BENEFITS

- SUPPORT NON-BLOCKING WIRE SPEED FORWARDING.
- SUPPORT FULL-DUPLEX BASED ON IEEE802.3X AND HALF-DUPLEX BASED ON BACKPRESSURE.
- SUPPORT GIGABIT ETHERNET PORT AND GIGABIT SFP PORT
- SUPPORT PHYSICAL SINGLE-MODE SINGLE FIBER OPTICAL PATH WITH BYPASS 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 PROCESSING OPERATION & TIME PERMISSION AND PROVIDE FLEXIBLE AND SAFE ACCESS CONTROL.
- 802. 1X AUTHENTICATION.
- PORT ISOLATION, STORM CONTROL.
- IP-MAC-VLAN-PORT BINDING
- 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 PoE 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 to 550M, 1310nm 0 to 2KM Single mode: 1310nm 0 to 40KM, 1550nm 0 to 120KM

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, Fiber, PoE
Reset Switch	Yes

POE CHARACTERISTICS

Power supply	DC : 52V, 240W
PoE power supply method	Supports 1,2+, 3,6-power supply
PoE output power	IEEE802.3af/at, with a maximum power of 30W per port

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

PoE Management

Soft-Reboot PoE Non-stop Total PoE
Per port PoE function enable/disable
PoE classification detection
PD alive check
PoE schedule

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 Equal Cost Routing
NG protocol, maximum 1000 entries
ARP protocol, maximum 1000 entries
Pingv6, Telnetv6, TFTPv6, DNSv6, ICMPv6
IPV4/IPV6 VRRP, the maximum group is 255
IPV4/IPV6 VLANIF interface supports up to 128
IPV4/IPV6 static route/default route supports up to 128 entries
L3 Network management function,
IPV4/IPV6 Dual-stack Management
Layer 3 routing and forwarding, support communication between different network segments and different VLANs

APPROVALS AND STANDARDS TESTED FOR

IEC61000-4-2	ESD: $\pm 8\text{kV}$ contact discharge, $\pm 15\text{kV}$ air discharge
IEC61000-4-3	RS: 10V/m (80~ 1000MHz)
IEC61000-4-4	EFT: power cable: $\pm 4\text{kV}$; data cable: $\pm 2\text{kV}$
IEC61000-4-5	Surge: power cable: $\text{CM}\pm 4\text{kV}/\text{DM}\pm 2\text{kV}$; data cable: $\pm 4\text{kV}$
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
Lightning Protection	Lightning Protection: 6KV 8/20us

POWER

Power Supply	DC48-57V Dual Redundant Power Supply
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PHYSICAL CHARACTERISTICS

Dimension (L*W*H)	172mm* 145mm*55mm
Installation	Desktop, DIN rail
Protection Level	IP40
Enclosure	Aluminium Alloy

ENVIRONMENT

Working Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Operating Humidity	5% to 90% (no condensation)
Storage Humidity	5% to 95% (no condensation)

ORDERING CODE

DDPSMG 308-2S FJ

DDPSMG	Industrial Grade L2+ Giga PoE Managed Ethernet Switch
308	8 * 10/100/1000 T PoE ports
2S	2 * 100/1000Base-X uplink SFP slot ports
FJ	Fixed