

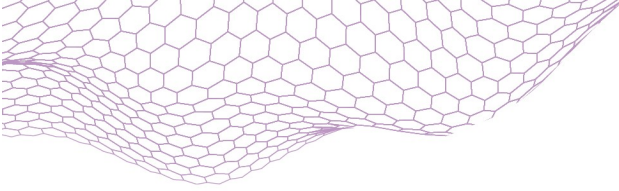


16/20/24/28 PORTS L2+ MANAGED INDUSTRIAL ETHERNET SWITCHES-GIGA

DDSMGR SERIES



DATA BRIDGE
D Y N A M I C



SYNOPSIS

- DDSMGR 3000 SERIES IS A FULL GIGABIT MANAGED INDUSTRIAL ETHERNET SWITCH, SUPPORTS UP TO 28 GIGABIT PORTS INCLUDING UPTO 12 GIGABIT FIBER PORTS.
- IT CAN ALSO SUPPORT 8 GIGA COMBO PORTS.
- THIS SERIES SUPPORTS PORT MIRRORING, VLAN, IGMP, QOS, STP/RSTP, ACL, ACLS BASED ON L3 AND L4 HEADERS AND OTHER MANAGEMENT, SUCH AS CONSOLE, TELNET, WEB, SNMP, AND RELAY ALARM OUTPUT.
- IT SUPPORTS LAYER 3 SWITCHING TECHNOLOGY (STATIC ROUTE/RIP/OSPF/VRP).
- THIS PROVIDES SAFE AND RELIABLE SOLUTION FOR INDUSTRIAL AUTOMATION, INTELLIGENT TRANSPORTATION, VIDEO MONITORING, AND OTHER INDUSTRIAL APPLICATION

FEATURES

- MULTIPLE COMBINATION FOR GIGABIT RJ45 AND SFP PORTS
- SUPPORT 8 GIGA COMBO PORTS
- SUPPORTS IGMP SNOOPING WITH MULTICAST PACKETS
- DHCP SNOOPING, DHCPV4 (SNOOPING, SERVER/ CLIENT)
- SUPPORTS PORT-BASED VLAN, IEEE 802.1Q VLAN
- SUPPORTS QOS (IEEE 802.1P/1Q) AND TOS /DIFFSERV
- SUPPORTS STP/RSTP, SNMPV1/V2/V3
- RMON TO IMPROVE NETWORK MONITOR FORECAST
- SUPPORTS LACP (LINK AGGREGATION CONTROL PROTOCOL) TO IMPROVE NETWORK BANDWIDTH AND IT IS BASED ON IEEE802.3AD STANDARD.
- SUPPORTS ACL, ENHANCE NETWORK MANAGEMENT SAFETY
- TRI-AUTHENTICATION SUCH AS MAC-BASED WEB-BASED AND IEEE 802.1X PORT BASED.
- SUPPORT PORT MIRRORING, CONVENIENT FOR ONLINE DEBUG
- SUPPORTS TRANSMISSION RATE OF PORT LIMITATION, BROADCAST/MULTICAST/UNCERTAIN UNICAST STORM RELIEVING
- SUPPORT RADIUS, SSH FOR CONSOLE ACCESS RESTRICTION AND AUTHENTICATION
- SUPPORTS LAYER 3 SWITCHING (STATIC ROUTE/RIP/OSPF/VRP) UPTO 30 SWITCHES UNDER IT
- SUPPORTS POWER, PORT, TEMPERATURE ABNORMAL STATUS AND RING DISCONNECT RELAY OUTPUT ALARM
- SUPPORT VIDEO & VOICE APPLICATIONS FOR REAL TIME STREAMING
- SUPPORT ITU T G.8032 RING PROTECTION TECHNOLOGY FOR SUB 50MS FOR SEAMLESS RECOVERY.
- LOW LATENCY WITH WIRE SPEED TRAFFIC CLASSIFICATION, ESSENTIAL FOR REAL TIME STREAMING AND REAL TIME VIDEO AND VOICE APPLICATIONS

TECHNICAL SPECIFICATIONS

STANDARDS AND PROTOCOLS

Chipset	Broadcom or better
Standards	IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.3ab, IEEE802.1Q, IEEE802.1p, IEEE802.1D, IEEE802.1W, IEEE802.1s, IEEE802.3ad, IEEE802.3ac, IEEE802.3az, IEEE802.1ab, IEEE802.1x
Protocol	ARP, ICMP, TCP, HTTP, HTTPS, Telnet, STP/RSTP/MSTP, SNMPv1,v2,v3, LLDP, IGMP, FTP/TSTP, DHCP Server, NTP, SNTP, RMON, Syslog
Flow control	IEEE802.3x Flow control, Back Pressure flow control

LAYER 3 SWITCHING

Static route, RIP V1/V2, OSPF, VRRP, Supports Router Redundancy

IPV6 SUPPORT

Limited functionality: Forward/Transmission of IPv6 packets/message and IPv6 addressing architecture with default address selection for IPv4. Set IPv6 IP address

PORTS

RJ-45 port	10/100/1000Base-T (X), Auto MDI/MDI-X
Fiber port	1000Base-X SFP, SC ports
Giga Combo Ports	

TRANSMISSION DISTANCE

Cat.5e	100m
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FIBER CABLE

Single-mode	1310nm, 20/40/60Km. 1550nm, 20/40/60/80/100/120Km
Multi-mode	1310nm, 2Km

SWITCHING PERFORMANCE

Forwarding rate	100M : 148,810pps 1000M: 1,488,095pps
Transmission mode	Store-and-forward
MAC address	16K
Switching bandwidth	56G
Cache size	12MB
Max Frame size	9216bytes
Host Unicast routing table	512 (IPv4) 256 (IPv6)
Network Segment Unicast routing table	64(IPv4 / IPv6)
Priority Que's	8
Simultaneous VLAN	4K
Latency	< 10 μ sec
DRAM	1G
FLASH	64M

POWER

Voltage input	Single 110/220V AC (88 to 264VAC) and 110/220V DC (88 to 264V DC) or Dual 110/220V AC, (88 to 264V AC) and 110/220V DC (88 to 264V DC) 50 to 60 Hz for AC Input
Power Port Insulation	2KV
Reverse Polarity Protection	Yes
Power Consumption	Rated power : <30W

MECHANICAL

IP rating	IP40
Weight	<4440g
Installation	Rack mounted
Dimension	440mm×44mm×315mm (W×H×D)

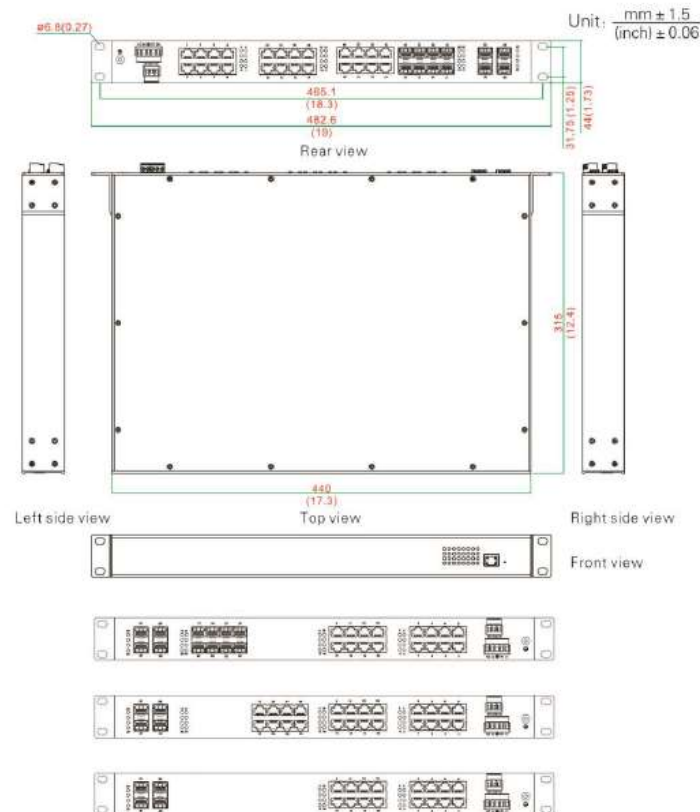
ENVIRONMENTAL

Operating temperature	-40°C to 85°C
Storage temperature	-40°C to 85°C
Relative humidity	0 to 95% (non-condensing)

APPROVALS & STANDARDS TESTED FOR

IEC 61000-4-2	Electrostatic Discharge: ±8kV (contact), ±12kV (air)
IEC 61000-4-3	RF Immunity :10V/m (80 to 1000MHz)
IEC 61000-4-4	Electrical Fast Transient Power Port: ±4kV, Data Port: ±2kV
IEC 61000-4-5	Surge Immunity Power Port: ±2kV/DM, ±4kV/CM, Data Port: ±2kV
IEC 61000-4-6	Conducted RF immunity Continuous Conducted Disturbance 3V (10kHz-150kHz), 10V (150kHz-80MHz)
IEC 60068-2-27	Shock
IEC 60068-2-32	Freefall
EN 55032:2015 Class A EN 55035: 2017	EMS
FCC Part 15, CISPR (EN55022) class A	EMI

DIAMENSIONS



ORDERING INFORMATION

DDSMGR 30XX-YY-8GC U A/D S

Model Code	10/100/1000 Base T Ports	Giga Combo. 10/100/1000TX or 1000X SFP	1000 Base X SFP Ports
DDSMGR 308-8S-U A S	8		8
DDSMGR 3016 U D S	16		
DDSMGR 3016-4S U A S	16		4
DDSMGR 3024 U A S	24		
DDSMGR 3016-8S U A S	16		8
DDSMGR 3024-4S U A S	24		4
DDSMGR 3016-12S U A S	16		12
DDSMGR 3016-8GC-4S-U A S	16	8	4

DDSMGR	Base code for Giga Managed Rack type Switch
XX	Ethernet Ports
YY	No. of SFP Ports
8GC	Only if Giga Combo option is selected
U	Universal AC/DC Supply
A/D	A: Single Input. D: Dual Redundant Input Supply
S	Fixed