



# 24 PORT L2 RACK MOUNTED INDUSTRIAL MANAGED SWITCH - GIGA

## DDSMGR SERIES



## SYNOPSIS

- THE DDSMGR 308-16S SERIES ARE DESIGNED FOR INDUSTRIAL APPLICATIONS.
- THANKS TO ITS WIDE OPERATING TEMPERATURE, IT CAN OPERATE RELIABLY IN EXTREMELY HARSH ENVIRONMENTS.
- DESIGNED WITH 16 GIGABIT FIBER PORTS, IT PROVIDES ABUNDANT AND FLEXIBLE CONNECTION.
- IT CONTAIN SURGE PROTECTION TO ENSURE SYSTEM STABILITY AND RELAY OUTPUTS FOR GREATER USER FLEXIBILITY.

## FEATURES

- 8 X GIGABIT RJ45 PORTS + 16 X GIGABIT SFP PORTS
- SNMP, WEB, TELNET, SSH, CONSOLE, STANDARD & PRIVATE MIB
- SUPPORT STANDARD IP/ EXTEND IP / MAC IP / ARP ACL
- 802.1X (PORT-BASED, MD5/TLS/TTLS/PEAP ENCRYPTION)
- EAPS (ULTRA HIGH-SPEED RECOVERY TIME < 20 MS), RSTP/STP/MSTP
- L2 MAC ADDRESS 8K, SWITCHING CAPACITY 48G
- POWER OUT ALARM
- IP30, METAL ENCLOSURE WITH RACK-MOUNTING KITS
- DUAL 100 TO 240VAC INPUT AND RELAY OUTPUT
- -20 TO 60°C WIDE-RANGE OPERATING TEMPERATURE
- PACKET FORWARDING RATE : 35.7MBPS
- PACKET BUFFER : 9K
- FLASH MEMORY : 32 MBIT

## SPECIFICATIONS

### COMMUNICATION

|                             |                                                                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard</b>             | IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab                                        |
| <b>LAN</b>                  | 10/100/1000Base-T(X)<br>1000Base-SX/LX/LHX/XD/ZX/EZX                                                                                |
| <b>Distance</b>             | Ethernet: Up to 100m (4 wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port)<br>SFP: Up to 110 km (depends on SFP)             |
| <b>Transmission Speed</b>   | Ethernet: 10/100/1000 Mbps Auto-Negotiation<br>Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation<br>Gigabit Fiber: Up to 1000 Mbps |
| <b>Interface Connectors</b> | 8 x RJ45 (Ethernet)<br>16 x SFP Ports<br>5-pin removable screw terminal (Power)<br>2-pin removable screw terminal (Relay)           |
| <b>LED Indicators</b>       | RJ-45 : Link/Activity<br>SFP : Link/Activity                                                                                        |
| <b>Console</b>              | RS-232 (RJ45)                                                                                                                       |

## L2 FEATURES

|                           |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| <b>L2 MAC Address</b>     | 8K                                                                                               |
| <b>Switching capacity</b> | 48G                                                                                              |
| <b>Jumbo Frame</b>        | 9KB                                                                                              |
| <b>VLAN Group</b>         | 4093 (VLAN ID 1 to 4093)<br>VLAN Mac based, Protocol based, IP subnet based,<br>Port based, GVRP |
| <b>Port Mirroring</b>     | Per port, Multi-source port                                                                      |
| <b>IP Multicast</b>       | IGMP Snooping v1/v2/v3, MLD Snooping, IGMP<br>Immediate leave                                    |
| <b>Storm Control</b>      | Broadcast, Multicast, Unknown unicast                                                            |
| <b>Spanning Tree</b>      | IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP,<br>EAPS                                     |

## SECURITY

|                          |                                           |
|--------------------------|-------------------------------------------|
| <b>Port Security</b>     | Static, Dynamic                           |
| <b>Authentication</b>    | 802.1x (Port-Based), RADIUS, TACACS+      |
| <b>ACL</b>               | Standard IP/ Extend IP / MAC IP / ARP ACL |
| <b>Advanced Security</b> | IP Source Guard                           |

## MANAGEMENT

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| <b>DHCP, Relay, Option82</b> |                                                    |
| <b>Access</b>                | SNMP, WEB, Telnet, RMON, Standard MIB, Private MIB |
| <b>Security Access</b>       | SSH                                                |
| <b>Software Upgrade</b>      | TFTP, HTTP                                         |
| <b>NTP</b>                   | NTP client                                         |

## QOS

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| <b>Priority Queue Scheduling</b> | WRR (Weighted Round Robin), SP (Strict Priority)         |
| <b>Class of Service</b>          | IEEE 802.1p based CoS, IP TOS, DSCP based CoS            |
| <b>Rate Limiting</b>             | Egress Rate limit, Ingress Rate limit                    |
| <b>Link Aggregation</b>          | IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking |

## POWER

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| <b>Power Consumption</b> | 25 W @ 110VAC                                    |
| <b>Power Input</b>       | Dual 90 to 264VAC / 88 to 370VDC ( Factory Set ) |
| <b>Fault Output</b>      | Relay Output P2 Fail                             |

## PHYSICAL CHARACTERISTICS

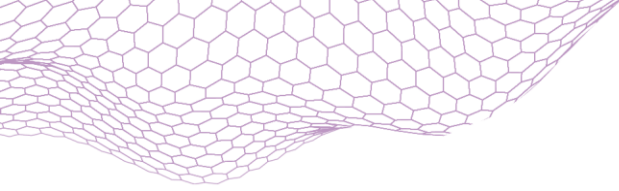
|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Dimension (W x D x H)</b> | 442 x 44 x 352 mm                   |
| <b>Enclosure</b>             | IP30, Metal with Rack-mounting kits |
| <b>Installation</b>          | 1U, 19" Rack mount                  |

## ENVIRONMENT

|                            |                          |
|----------------------------|--------------------------|
| <b>Working Temperature</b> | -20°C to +60°C           |
| <b>Storage Temperature</b> | -20°C to +70°C           |
| <b>Relative Humidity</b>   | 10-95% (no condensation) |

## APPROVALS & STANDARDS TESTED FOR

|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| <b>IEC 61000-4-2</b>  | Electrostatic Discharge:<br>±8kV (contact), ±12kV (air)                                            |
| <b>IEC 61000-4-3</b>  | RF Immunity<br>:10V/m (80 to 1000MHz)                                                              |
| <b>IEC 61000-4-4</b>  | Electrical Fast Transient<br>Power Port: ±4kV, Data Port: ±2kV                                     |
| <b>IEC 61000-4-5</b>  | Surge Immunity<br>Power Port: ±2kV/DM, ±4kV/CM,<br>Data Port: ±2kV                                 |
| <b>IEC 61000-4-6</b>  | Conducted RF immunity<br>Continuous Conducted Disturbance<br>3V (10kHz-150kHz), 10V (150kHz-80MHz) |
| <b>EN 61000-4-8</b>   | Power frequency magnetic field immunity test                                                       |
| <b>IEC 61000-4-16</b> | Common mode conduction<br>30V (cont.), 300V (1s)                                                   |
| <b>IEC 60068-2-27</b> | Shock                                                                                              |
| <b>IEC 60068-2-32</b> | Freefall                                                                                           |
| <b>IEC 60068-2-6</b>  | Vibration                                                                                          |



## OTHERS

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**FCC CFR47 Part 15,EN55022 / CISPR22, Class A**  
**Safety CE-LVD**

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## ORDERING CODE

**DDSMGR 308-16S Hi**

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|               |                                       |
|---------------|---------------------------------------|
| <b>DDSMGR</b> | 19" Rack-mount Giga L2 Managed Switch |
| <b>308</b>    | 8 * 10/100/1000 Base-Tx Ports         |
| <b>16S</b>    | 16 * Giga SFP Ports                   |
| <b>Hi</b>     | Fixed                                 |



**DATA BRIDGE**  
D Y N A M I C