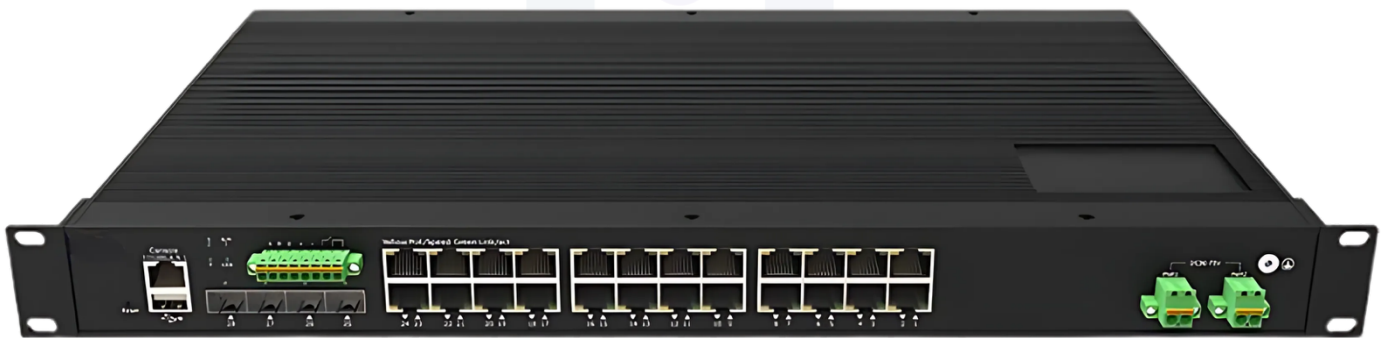
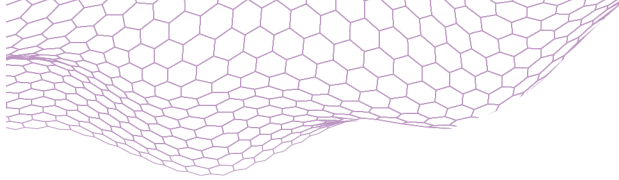




28-PORT MANAGED INDUSTRIAL ETHERNET SWITCH – GIGA POE

DDSMGR SERIES





SYNOPSIS

- THE DATABRIDGE DYNAMIC DDPSMGR SERIES IS A HIGHLY RELIABLE LAYER 2+ MANAGED INDUSTRIAL POE SWITCH.
- FEATURES 24× 10/100/1000BASE-T POE PORTS AND 4× 1G/2.5GBASE-X SFP PORTS FOR COMPREHENSIVE CONNECTIVITY.
- COMPLIES WITH IEEE802.3AF/AT STANDARDS, DELIVERING UP TO 30W (POE+) PER PORT.
- FULL GIGABIT CAPABILITY OFFERS RAPID TRANSMISSION OF VIDEO, VOICE, AND DATA ACROSS NETWORKS.
- SUPPORTS DI/DO/RS485 INTERFACES, G.8032 ERPS, AND MSTP/RSTP/STP REDUNDANCY FOR ENHANCED RESILIENCE.
- INCLUDES LAYER 3 IPV4/IPV6 STATIC ROUTING AND ROBUST LAYER 2 MANAGEMENT AND SECURITY FUNCTIONS.
- WIDE VOLTAGE INPUT RANGE (44–57VDC) AND REDUNDANT DC/DC POWER DESIGN ENSURE OPERATIONAL RELIABILITY.
- BOASTS ROBUST IP40 FANLESS HOUSING, RACK-MOUNT INSTALLATION, AND WIDE OPERATING TEMPERATURE (-40°C TO 75°C).
- OFFERS HIGH-LEVEL EMI/EMC PROTECTION FOR DEMANDING ENVIRONMENTS.
- IDEALLY SUITED FOR HEAVY INDUSTRIAL APPLICATIONS SUCH AS FACTORY AUTOMATION, TRANSPORTATION, OIL & GAS, CHEMICAL INDUSTRIES, IP SURVEILLANCE, AND PROCESSING AUTOMATION IN HARSH AND CRITICAL CONDITIONS.

FEATURES & BENEFITS

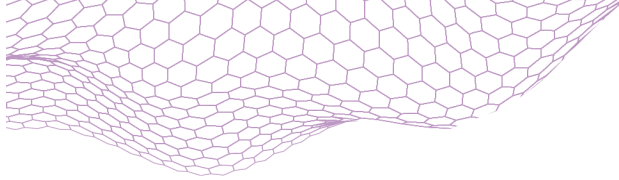
- 24×10/100/1000BASE-T RJ45 POE,
- 4×1G/2.5G BASE-X SFP
- DC/DC REDUNDANT POWER 44-57V SUPPLY WITH POLARITY REVERSE/OVER-VOLTAGE/OVER-CURRENT PROTECTION
- COMPLIES WITH IEEE802.3AF POE AND IEEE802.3AT POE+ STANDARD
- LAYER 3 FEATURES: SUPPORT IPV4/IPV6 STATIC ROUTING, DHCP SERVER
- SUPPORT USB ONE KEY CONFIGURATION AND UPGRADING
- DI/DO/RS485 ARE OPTIONAL
- LAYER 2 FEATURES: VLAN; ERPS, STP/RSTP/MSTP; LINK AGGREGATION, IGMP SNOOPING, PORT MIRRORING, QINQ, 802.1X, PORT ISOLATION, RMON, NTP CLIENT, DHCP SNOOPING/CLIENT, PING/TRACERT TEST, ACL, QOS AND SFP DDM FUNCTION
- MANAGEMENT AND MAINTENANCE: IPV4 AND IPV6 MANAGEMENT; POE MANAGEMENT; SUPPORT WEB, SNMP, CLI, TELNET/SSH MANAGEMENT METHOD; SUPPORT USER MANAGEMENT, SYSTEM LOG, CONFIGURATION UPLOAD/DOWNLOAD THROUGH WEB INTERFACE, FIRMWARE UPGRADE VIA HTTP/TFTP/USB
- SUPPORT G.8032 ERPS PROTOCOL, RECOVERY TIME ≤20MS
- SUPPORT 6KV SURGE PROTECTION AND ESD: AIR-15KV, CONTACT-8KV PROTECTION
- IP40 FAN-LESS AND RACK-MOUNT HARDWARE DESIGN
- OPERATION TEMPERATURE: -40 °C ~+ 75 °C

TECHNICAL SPECIFICATIONS

Interface	Fiber ports	Copper RJ45 ports
	4	24
Ethernet	24*10/100/1000Base-T RJ45 PoE 4*1000/2500Base-X SFP	
Management port	1*RJ45 Console port (115200,8,N,1) , 1*USB 2.0 for configuration and firmware update	
Data & Alarm channel (optional)	1 channel RS485 1 channel DI (digital input) 1 channel DO (digital output)	
Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-T Ethernet IEEE 802.3z 1000Base-X Ethernet IEEE802.3x Flow Control and Back Pressure IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1Q VLAN ITU-T G.8032 ERPS IEEE 802.1X Port Authentication Network Control IEEE 802.1ab LLDP IEEE 802.3ad LACP IEEE802.3af PoE IEEE802.3at PoE+	

LED INDICATORS

P (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
S (System status indicator)	Blinking: device initialization	On: device on normal operation
USB (USB status indicator)	Off: USB flash drive not insert or not detected by device On: USB flash drive is detected by device Blinking: the device is reading and writing the data from USB flash drive	
ALM (Fault status indicator)	Off: Device on normal working state	On: Fault alarm



Red	
1-24 (Copper ports indicators) Green	Off: ports link down
	On: ports link up
	Blinking: data on TX/RX
1-24(PoE Status Indicators) Yellow	Off: PoE Not Working
	On: PoE Working
25-28(Fiber ports indicators) Green	Off: ports link down
	On: ports link up
	Blinking: data on TX/RX

POWER PARAMETER

Input voltage	44-57VDC(802.3af) 52-57VDC(802.3at) redundant power input
Input current	9A DC input Max
Total power consumption	Full loading without PoE $\leq$ 32W PoE power budget $\leq$ 370W
Connector	Removable 2*2-pin terminal block
Reverse polarity protection	Support
Over-voltage & Current protection	Support

SOFTWARE SPECIFICATIONS

LAYER 2 FUNCTIONS

Port aggregation	Support GE port aggregation Support 2.5GE aggregation Support static aggregation Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group
Port features	Support IEEE802.3x flow control, Support interface counters, Support port isolation, Port mirroring (One-to-One, Many-to-One) Support loop detection (Port-based; VLAN-based) Support broadcast storm suppression (broadcast; unknown unicast)
Mac-address table management	Support static Mac-address management Support dynamic Mac-address Management Support filtering Mac-address Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN
VLAN	Support access mode Support trunk mode Support hybrid mode
VLAN classification	Mac Based VLAN IP Based VLAN Protocol Based VLAN
GVRP	Normal mode Fixed mode Forbidden mode
QinQ	Port-based QinQ VLAN-based QinQ (VLAN-stacking; VLAN-mapping) Flow-based QinQ

LLDP	LLDP (Link Layer Discovery Protocol)
Ring network protocol	Support IEEE802.1D-STP Support IEEE802.1W-RSTP Support IEEE802.1S-MSTP Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms

LAYER 2 MULTICAST

IGMP snooping	Support IGMP snooping
Group address	Support group address

SECURITY FUNCTIONS

ACL	IP Standard ACL MAC extend ACL IP extend ACL IPv6 ACL
QoS	Support QoS Class, remarking Support SP, WRR queue scheduling Ingress port-based rate-limit Egress port-based rate-limit Support policy-based QoS
802.1x	Port access control Mac-address access control RADIUS server
Port-security	Port-security
IP source guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control

MANAGEMENT & MAINTENANCE FUNCTIONS

User Management	Support password protection Support user authorization management
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	Support RMON(Remote Monitoring) alarm
Firmware upgrade	Firmware upgrade
Fault Detection	Ping/Tracerout Dying gasp Support optical transceiver DDM function
Cable detection	Support copper port cable detection
PoE management	Support 802.3af/802.3at Support PD watchdog Support PoE priority management Support Max PoE power configuration for each port Support alarm waterline configuration Support reserved power configuration
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug Syslog send to three servers
Configuration import/export	Support FTP/TFTP remote import/export Support USB import/export
Dual partition management	Support dual partition switching

APPLICATION PROTOCOL FUNCTIONS

DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP client	Support DHCP client

Telnet server	Support telnet server
Telnet client	Support telnet client
SSH server	Support SSH server
TACACS	Support TACACS(the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client

LAYER 3 FUNCTIONS

ARP	ARP table aging
IPv4 / IPv6	static routing

SWITCHING FEATURES

Switching capacity	68Gbps
Packet forwarding rate	101Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes
MDX/MIDX	Support
Watchdog	Support

MECHANICAL STRUCTURE

Case protection	IP40
Installation method	Rack mountable
Dimension(W*D*H)mm	440*45*280mm

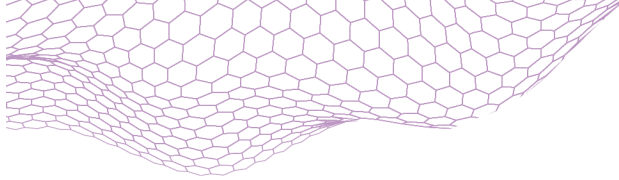
OPERATING ENVIRONMENT

Operating temperature	-40°C~+ 75°C
Storage / transportation temperature	-40°C~+ 85°C
Relative humidity	Operation humidity: 10%-90%RH Storage humidity: 5%-95%RH

CERTIFICATIONS TESTED FOR

INDUSTRIAL STANDARD

EMS	Surge protection of power: IEC 61000-4-5 DC:6KV/6KV Surge protection of Ethernet ports: IEC 61000-4-5 RS : IEC 61000-4-3 80 MHz-1 GHz : 10 V/m EFT : IEC 61000-4-4 power 4K, signal 2K CS : IEC 61000-4-6 10V ESD : IEC 61000-4-2Contact: 8K ; Air: 15K
EMI	FCC Part 15B Class A
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certification	CCC/CE/UKCA/RoHS/REACH/FCC
MTBF	> 200,000 hours



ORDERING CODE

DDPSMGR 3024-4S ST

DDSMGR	Rack Type L2+ Giga Managed PoE Industrial Ethernet Switch
4024	24 * Giga PoE Copper Ports
4S	4 * 1G/2.5G Fiber SFP Slots
ST	Fixed



DATA BRIDGE
D Y N A M I C