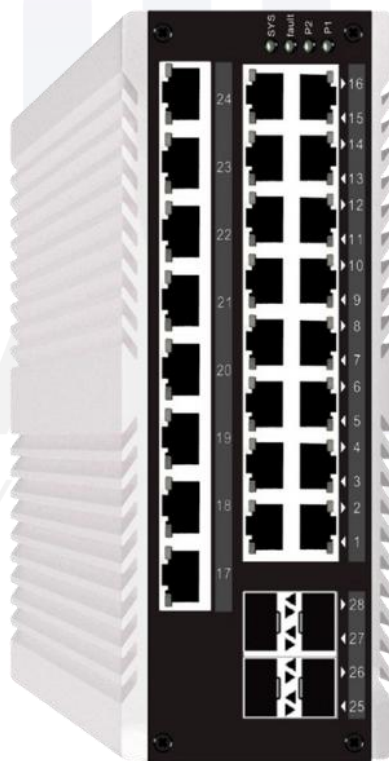


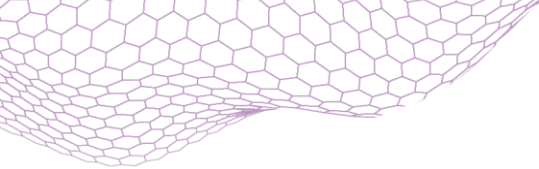


28 PORT LAYER 2+

INDUSTRIAL ETHERNET MANAGED SWITCH-GIGA

DDSMG CF SERIES





SYNOPSIS

- THE DDSMG 3024-4S CF IS A FULL GIGABIT L2 MANAGED INDUSTRIAL ETHERNET FIBER SWITCH INDEPENDENTLY DEVELOPED BY DATABRIDGE DYNAMIC.
- IT HAS 24*10/100/1000BASE-T RJ45 PORTS AND 4*100/1000BASE-X SFP FIBER PORTS.
- THE DDSMG 3024-4S CF HAS L2+ NETWORK MANAGEMENT FUNCTION, SUPPORT IPV4 STATIC ROUTE FORWARDING, 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 TO ENSURE UNINTERRUPTED COMMUNICATION OF IMPORTANT APPLICATIONS.
- THE SWITCH ALSO SUPPORTS ROUTING ADDRESS MANAGEMENT, PORT MANAGEMENT, PORT FLOW CONTROL, VLAN DIVISION, IGMP, SECURITY POLICY. WEB, CLI, SNMP, TELNET AND OTHER NETWORK MANAGEMENT METHODS ARE SUPPORTED.
- PROTECTION LEVEL IS IP40, SUPPORT DUAL REDUNDANT POWER SUPPLY, LOW POWER CONSUMPTION AND NO FAN.

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 COMBINATION
- 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 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	24 * 10/ 100/ 1000Base-T RJ45 ports 4 * 100/ 1000Base-X uplink SFP slot ports 1 * RS232 console port
Ethernet Ports	Port 1-24 support 10/ 100/ 1000Base-T auto-sensing, full/half duplex Auto MDI/MDI-X
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 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	56 Gbps
Buffer Memory	41.66Mpps
MAC	8K
LED Indicator	Power, Fiber, Network
Reset Switch	Yes

POWER

Power Supply	DC12-57V industrial power supply Dual Redundant
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PHYSICAL CHARACTERISTICS

Dimension (L*W*H)	174mm* 148mm*68mm
Installation	Desktop, DIN rail

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 90% (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 & 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

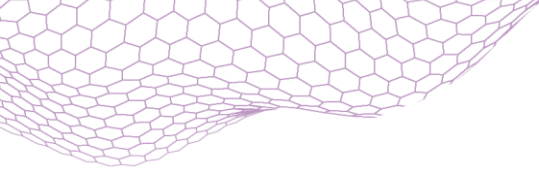
Cable Diagnostics
Ping
SFP DDM (Digital Diagnostics Monitoring) Thermal
protection
System log (Local and Remote)
Memory and CPU Monitoring

L3 functions

PV4 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
FCC Part 15/CISPR22(EN55022): Class B	EMI
Lightning Protection	Lightning protection: 6KV 8/20us, Protection level: IP40



ORDERING CODE

DDSMG 3024-4S CF

DDSMG	Industrial Grade L2+ Giga Managed Ethernet Switch
3024	24 * 10/100/1000M Copper Port
4S	4 * 100/1000Base-X uplink SFP slot ports
CF	Fixed

