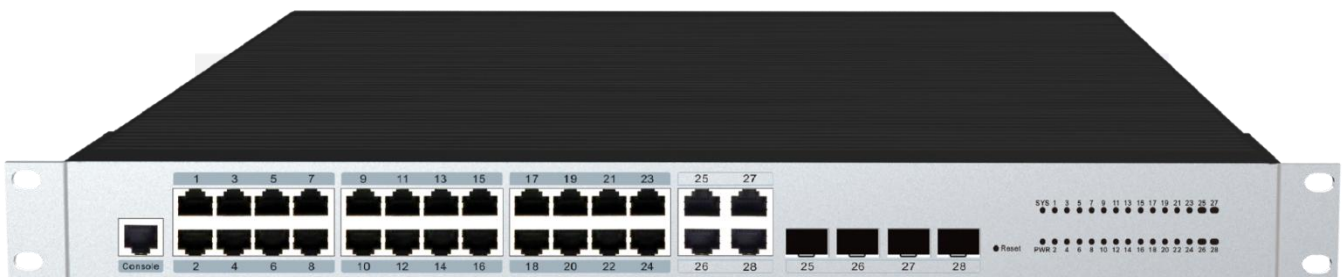
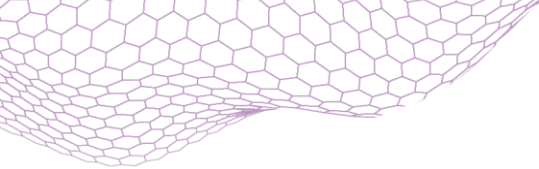




28 PORT LAYER 2+ INDUSTRIAL GRADE MANAGED GIGA POE RACK SWITCH

DDPSMGR SERIES





SYNOPSIS

- THE DDPSMGR 3024-4GC CF IS A FULL GIGABIT L2+ MANAGED INDUSTRIAL POE ETHERNET FIBER SWITCH WITH 24*10/100/1000BASE-T POE PORTS, PORT 1-24 CAN SUPPORT IEEE802.3af/at WITH A MAXIMUM POWER OF 30W PER PORT AND A TOTAL POWER OF 450W, 4*GIGA COMBO, 10/100/1000BASE-T OR 100/1000BASE-X PORTS.
- IT CAN AUTOMATICALLY DETECT AND RECOGNIZE POE POWER-COMPLIANT DEVICES.
- DDPSMGR 3024-4GC CF HAS L2+ NETWORK MANAGEMENT FUNCTIONS, SUPPORT IPV4 STATIC ROUTE FORWARDING, COMPLETE SECURITY PROTECTION MECHANISM, ACL/QOS POLICY AND RICH VLAN FUNCTIONS.
- IT SUPPORT MULTIPLE NETWORK REDUNDANCY PROTOCOLS STP/RSTP/MSTP, CONVERGENCE TIME <50MS, SUPPORT ERPS RING NETWORK FUNCTION, CONVERGENCE TIME<20MS TO IMPROVE LINK BACKUP AND NETWORK RELIABILITY. AI, 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.
- THE ENCLOSURE IS MADE OF ALUMINUM ALLOY, PROTECTION LEVEL IS IP40
- SUPPORT DUAL REDUNDANT POWER SUPPLY, LOW POWER CONSUMPTION AND NO FAN.

SYNOPSIS

- PORT 1-24 CAN SUPPORT IEEE802.3af/at WITH A MAXIMUM POWER OF 30W PER PORT.
- TOTAL POWER CONSUMPTION 450W
- 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 AND VIDEO CONFERENCE ACCESS REQUIREMENTS.
- ALC, FILTER DATA PACKET THROUGH CONFIGURING MATCHING RULES, PROCESSING OPERATION & TIME PERMISSION,
- 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 CHARACTERISTICS

Fixed Port	24* 10/ 100/ 1000Base-T PoE ports 4* Giga Combo (10/100/1000Base-T or 100/1000Base-X) 1* Console ports
Ethernet Port	Port 1-24 support 10/ 100/ 1000Base-T auto-sensing, Full/Half duplex MDI/MDI-X self-adaption
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 SPECIFICATIONS

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	41.66 Mpps
MAC	8K
LED Indicator	Power, Fiber, PoE
Reset Switch	Yes

POE CHARACTERISTICS

PoE power Pins	Supports 1,2+, 3,6-power supply
PoE output power	IEEE802.3af/at, with a maximum power of 30W per port and a total power of 450W

SOFTWARE FEATURES

L2 FUNCTION	
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 tunneling Private VLAN (Protected port) GARP/GVRP
ACL	256 ACLs L2, L2+, L4, 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

L2+ functions

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

L2+ network management function, IPV4/IPV6 dual-stack management

Layer 3 routing and forwarding, support communication between different network segments and different VLANs

PHYSICAL CHARACTERISTICS

Dimension (mm)

(L*W*H): 440mm* 300mm*44mm

Installation

Desktop, 19-inch 1U cabinet installation

ENVIRONMENTAL

Working Temperature

-40 to +75°C

Storage Temperature

-40 to +85°C

Operating Humidity

5% to 90% RH Non condensing

Storage Humidity

5% to 95% RH Non condensing

POWER

Power Supply

1* AC:100-240V, Frequency: 50/60Hz

1* DC: 48VDC

APPROVAL AND STANDARD 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 to 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): $\text{CM } 2.5\text{kV}$, $\text{DM } 1\text{kV}$
IEC61000-4- 16	(common-mode transmission): 30V ; 300V , 1s
FCC Part 15/CISPR22(EN55022): Class B	EMI
IEC61000-6-2	(Common Industrial Standard)
Lightning Protection	6KV 8/20us
Protection level	IP40
IEC60068-2-6	anti vibration
IEC60068-2-27	anti shock
IEC60068-2-32	free fall

ORDERING CODE

DDPSMGR 3024-4GC-CF

DDPSMGR	L2+ Industrial Ethernet Managed PoE Rack Switch
3024	24* 10/ 100/ 1000Base-T PoE ports
4GC	4* Giga Combo 10/100/1000Base-T or 100/1000Base-X
CF	Fixed