

28 PORT – LAYER 3

INDUSTRIAL ETHERNET MANAGED SWITCH-GIGA

DDPSMGR SERIES



SYNOPSIS

- DDPSMGR 4024-4S+ A Hi IS INDUSTRIAL L3 MANAGED POE SWITCH SUPPORTS STORE-FORWARD ARCHITECTURE, FAN-LESS, AND ENERGY-NVING DESIGN, IT HAS 24* 10/100/1000M RJ45 PORTS AND 4 * 10G SFP + UPLINK PORT.
- FULL SERIES IS DESIGNED WITH PROTECTION AGAINST LIGHTNING, ANTI-STATIC, AND OPERATE IN -30°C TO 70°C.

TECHNICAL SPECIFICATIONS

INTERFACE

Networking Interfaces	24 x 10/100/1000 Mbps RJ45 Ethernet Ports 4 x 10Gbps SFP+ Ethernet Ports
Management Interface	Console
Alarm Terminal	Power fail alarm
LED Indicators	Pwr, Link/Act, PoE

PERFORMANCE

Switching Capacity	128 Gbps
Forwarding Capacity	95.2 Mpps
Forwarding Mode	Store and forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2 Gbit
Flash Memory	128 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16K
ACL Table	1K
VLAN Quantity	4K
VLAN Interface	1K
Multicast groups	1K
Routing Host	6K IPv4 or 2K IPv6
Routing Entries	512 IPv4 or 128 IPv6
Port Queues	8
PoE Budget	430watt

POWER OVER ETHERNET

PoE Interfaces	Ports 1-24
PoE Standard	IEEE802.3af, IEEE802.3at
Max. PoE Wattage per Port	30W
PoE Voltage	54VDC
PoE Pin Assignment	V- (RJ45 Pin1,2), V+ (RJ45 Pin 3,6)
PoE Management	Port-base PoE status view and control

PORT CONFIGURATION

Enable and disable	Support control enable and disable
Auto-Negotiation	Support force port mode and speed
Flow Control	Support IEEE802.3x full-duplex Support half-duplex backpressure
Storm Control	Support broadcast, multicast and DLF package rate limit
Port Mirroring	Support many to one mirroring
Rate Limit	Support Port input and output rate limit
Link Aggregation	Support manual Link Aggregation Support LACP Up to 8 maximum aggregation groups, each containing up to 8 ports
Aggregation Strategy	Source MAC / Destination MAC / Source Destination MAC Source IP / Destination IP / Source Destination IP
Port Protection	Each port can be configured into isolated protected port from each other

MAC CONFIGURATION

MAC Address Table Management	Support
Transfer Mode	Support IVL transfer mode
Static MAC Address	Support
MAC Binding	Support
MAC Address Filter	Support
MAC Quantity Limitation	Support limits the number of MAC-addresses Learning per port

VLAN CONFIGURATION

VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support
Voice VLAN	Support
VLAN Mapping	Support 1:1 mapping
QinQ	Support basic QinQ Support flexible QinQ

RELIABILITY PROTOCOL

Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
ERPS Protocol	Support
DLDP Protocol	Support DLDP
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO
VLLP (VRRP Layer-2 Loop Protection)	Support, only used with VRRP

L3 ROUTING

ARP	Support static and dynamic ARP
Static Route	Support static route based on IPv4 and IPv6
RIP	Support RIP v1/v2 & IPv6 RIPng
OSPF	Support OSPFv2 & IPv6 OSPFv3
BGP	Support BGP4 & IPv6 BGP4+
Policy Route	Support
VRRP	Support

MULTICAST

Static Multicast MAC Address	Support
IGMP SNOOPING	Support
IGMP Querier	Support
IGMP Filter	Support
MVR	Support
GMRP	Support
PIM-SM	Support

ACCESS CONTROL LIST

Based on Standard IP	Support
Based on Extend IP	Support
Based on MAC IP	Support
Based on MAC ARP	Support
Based on time	Support
Port Filtering	Support

QUALITY OF SERVICE (QOS)

Scheduling Mode	Support WRR, RR, WDRR, SP
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP	Support
Sorting Based on ACL	Support
QoS Policy	Support packets mapping to queue
	Support COS or DSCP Remarking
	Support rate limits of data flow
	Support data flow statistics
	Support mirroring of data flow

DHCP

DHCP Client	Support
DHCP Relay	Support
DHCP Server	Support
DHCP Snooping	Support
DHCP option 82	Support

SECURITY

Administrative Security	Support starts and end TELNET, WEB and SNMP serve Support TELNET, WEB and SNMP serve binding with Standard IP ACL Support controls the number of users for TELNET
CPU Protect	Switch self-security protect, forbid flow attack
IP-MAC Address Binding	Support binding between static configuration IP, MAC and Port
AAA	Support 802.1x protocol Support RADIUS protocol Support RADIUS server authentication authorization and bill Support MAC-based 802.1X authentication. Support 802.1x guest VLAN
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC port binding Support stationary port connect to DHCP server, to prevent privately connect to DHCP sever
Prevent ARP Spoofing	Support manual configure ACL rule based on MAC ARP prevent ARP spoofing Support DHCP SNOOPING function, switch dynamically binding ARP and port, when the DHCP get IP address, to prevent ARP spoofing

IPV6

IPv4/IPv6 Dual Protocol Stack	Support
IPv6 Address	Support manual address configuration and stateless address auto-configuration
IPv6 Neighbor Discovery	Support
ICMPv6	Support
IPv6 Path MTU Discovery	Support

DEBUGGING TOOLS

PING	Support
PING6	Support
TRACEROUTE	Support
TELNET Client	Support
SSH Client	Support

MANAGEMENT FEATURES

CLI Management	Support Console, Telnet and SSH Support multiple TELNET connections based on IPv4 and IPv6 Support multiple SSH connections based on IPv4 and IPv6
WEB Management	Support HTTP / HTTPS based on IPv4 and Ipv6
SNMP Management	Support SNMP protocol Support SNMP TRAP Support standard and private MIB
User management	Support multi-user management
TACACS+	Support switch authentication via TACACS+ server remote username and password Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6
Show CPU Utilization	Support
Show RAM Utilization	Support
Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Configuration Download / Upload	Support Web / TFTP transmission based IPv4 and Ipv6
Upgrade Firmware	Support Web / TFTP transmission based IPv4 and Ipv6
Timer Management	Support local timer management Support SNTP protocol get clock

PHYSICAL CHARACTERISTICS

Dimensions	440 x 400 x 44 mm
Operating Temperature	-30 to 70°C
Storage Temperature	-40 to 75°C
Operating Humidity	5 to 95% Noncondensing
Power Method	100-240VAC, 50/60Hz
Max. Power Consumption	450watt
EMC Safety	FCC, CE, RoHS



ORDERING CODE

DDPSMGR 4024-4S+ A Hi

DDPSMGR	Industrial Ethernet Layer 3 Managed Giga PoE Rack Switch
4024	24 x 10/100/1000M RJ45
4S+	4 x 10G SFP
A	Input Power 100-240VAC, 50/60Hz
Hi	Fixed

