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L3 MANAGED GIGABIT ETHERNET SWITCH WITH 90W IEEE802.3bt POE INJECTOR

DDPSMGR 4024-4S-bt 2000 Hi SERIES



SYNOPSIS

- ✓ THE DDPSMGR 4024-4S-bt HI IS A NEW GENERATION ETHERNET INTELLIGENT ACCESS SWITCH.
- ✓ IT IS MAINLY DEPLOYED ON THE IP MAN AND INTRANETS, MEETING REQUIREMENTS THE REQUIREMENTS OF CARRYING VARIOUS ETHERNET SERVICES AND ACCESSING THE ETHERNET.
- ✓ IT ALSO PROVIDES THE 90W BT POE FUNCTION FOR POWERING OF HIGH-POWER WIRELESS LAN (WLAN) ACCESS POINTS, PTZ IP SECURITY CAMERAS, VOIP TELEPHONE WITH LCD AND SMART LIGHTING.
- ✓ THE DDPSMGR 4024-4S-bt HI IS A CASE-SHAPED DEVICE WITH A CHASSIS OF 1U HIGH. IT PROVIDES 24 10/100/1000BASE-TX PORTS + 4 1G SFP PORTS. IT PROVIDES 24 POE INJECTOR.

FEATURES

- ✓ IEEE802.3, IEEE 802.3U, IEEE802.3AB, IEEE802.3Z, IEEE802.3AF, IEEE802.3AT, IEEE802.3BT(TYPE-4)
- ✓ PROVIDES 24 10/100/1000 BASE-TX PORTS + 4 1G SFP PORTS
- ✓ PROVIDES 24 POE INJECTOR
- ✓ POWER BUDGET 1XPSU 550W / 870W / 1150W / 1950W
- ✓ POWER BUDGET 2XPSU 1150W / 1790W / 2350W / 3950W
- ✓ SUPPORT REDUNDANT POWER SUPPLY, 600W / 920W /1200W / 2000W
- ✓ HIGH BACK-PLANE BANDWIDTH 56GBPS
- ✓ SUPPORT STANDARD IP/ EXTEND IP / MAC IP / ARP ACL
- ✓ SUPPORT IGMP SNOOPING FOR MULTI-MEDIA APPLICATION
- ✓ SUPPORT PORT MIRROR AND BANDWIDTH CONTROL
- ✓ SUPPORT IEEE802.3X FLOW CONTROL
- ✓ SUPPORT PORT BASED VLAN / 802.1Q TAG VLAN
- ✓ SUPPORT IEEE802.3AD PORT TRUNK WITH LACP
- ✓ SUPPORT SPANNING TREE PROTOCOL IEEE802.1D/802.1W/802.1S
- ✓ SUPPORT IEEE 802.1P CLASS OF SERVICE
- ✓ SUPPORT IEEE 802.1X USER AUTHENTICATION
- ✓ SUPPORT BROADCAST STORM FILTER
- ✓ SUPPORT DHCP CLIENT, DHCP RELAY, DHCP SERVER, DHCP SNOOPING
- ✓ SUPPORT STATIC ROUTE, POLICY ROUTE, RIP, OSPF, VRRP
- ✓ SUPPORT SYSTEM EVENT LOG
- ✓ SUPPORT COMMAND LINE INTERFACE MANAGEMENT
- ✓ MANAGEMENT BY WEB / SNMP / SSH / TELNET / CONSOLE

TECHNICAL SPECIFICATIONS

ATTRIBUTES

| | |
|-----------------------|---|
| Networking Interfaces | 24 x 10/100/1000 Mbps RJ45 Ethernet Ports 4 x 1Gbps SFP Ethernet Ports |
| Management Interface | Console |
| LED Indicators | Power, Link/Act, PoE |



PERFORMANCE

| | |
|-----------------------|--|
| Switching Capacity | 56 Gbps |
| Forwarding Capacity | 41.7 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 | 12K |
| ACL Table | 1K |
| VLAN Quantity | 4K |
| VLAN Interface | 1K |
| Multicast groups | 1K |
| Routing Host | 2K IPv4 or 512 IPv6 |
| Routing Entries | 512 IPv4 or 128 IPv6 |
| Port Queues | 8 |
| PoE Budget | 1xPSU 550W / 870W / 1150W / 1950W 2xPSU 1150W / 1790W / 2350W / 3950W |

PHYSICAL

| | |
|-----------------------|------------------------|
| Dimensions | 440 x 280 x 44 mm |
| Weight | |
| Operating Temperature | 0 to 45°C |
| Storage Temperature | -10 to 70°C |
| Operating Humidity | 5 to 95% Noncondensing |

POWER

| | |
|------------------------|--|
| Power Method | 100-240VAC, 50/60Hz |
| Max. Power Consumption | Including PoE Output: 1xPSU 600W / 920W / 1200W / 2000W 2xPSU 1200W / 1840W / 2400W / 4000W Excluding PoE Output: 50W |
| EMC Safety | FCC, CE, RoHS |
| Reliability | Redundant power supply |

POWER OVER ETHERNET

| | |
|---------------------------|---|
| PoE Interfaces | Ports 1-24 |
| PoE Standard | IEEE802.3af, IEEE802.3at, IEEE802.3bt |
| Max. PoE Wattage per Port | 90W |
| PoE Voltage | 54VDC |
| PoE Pin Assignment | V- (RJ45 Pin1,2,7,8), V+ (RJ45 Pin 3,4,5,6) |
| 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 |



DDPSMGR Series

| | |
|---------------------|---|
| 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 |

HOST ROUTING

| | |
|--------------|--------------------------------|
| ARP | Support static and dynamic ARP |
| Static Route | Support static route for HOST |

MULTICAST

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



ACCESS CONTROL LIST (ACL)

| | |
|----------------------|---------|
| 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)

| | |
|-------------------------|---|
| 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 user 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 |

MANAGEMENT FEATURE

| | |
|---------------------------------|--|
| 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 |

Debugging Tools

| | |
|---------------|---------|
| PING | Support |
| PING6 | Support |
| TRACEROUTE | Support |
| TELNET Client | Support |
| SSH Client | Support |

ORDERING INFORMATION

DDPSMGR 4024-4S-bt 2000 Hi

24GE + 4x1G SFP Managed PoE-bt Switch with 24 PoE ports supporting (2x2000W PSU)

