

12 PORT LAYER 3 INDUSTRIAL GRADE MANAGED GIGA POE -BT SWITCH

DDPSMG SERIES



SYNOPSIS

- THE DDPSMG 408-4S+-bt Hi IS A HIGH-PERFORMANCE, LAYER 3 MANAGED SWITCH.
- IT FEATURES 8 X GIGABIT RJ45 PORTS WITH POE++ SUPPORT (IEEE 802.3bt) AND 4X 10G SFP+ UP-LINKS. DESIGNED FOR MAXIMUM RESILIENCE, IT GUARANTEES UNDER 20MS RECOVERY IN RING NETWORK TOPOLOGICAL AND OPERATES RELIABLY IN AN EXTENDED TEMPERATURE RANGE OF -40°C TO 75°C.

SYNOPSIS

- IEEE802.3, IEEE 802.3U, IEEE802.3AB, IEEE802.3Z, IEEE802.3AE, IEEE802.3BT
- PROVIDES 8*10/100/1000 BASE-TX PORTS
- PROVIDES 4*10G SFP+ PORTS
- PROVIDES 8 POE++ PORTS. 90W TYPE-4
- HIGH BACK-PLANE BANDWIDTH 96GBPS
- SUPPORT MLD SNOOPING
- 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

Interface	8* 10/100/1000Base-T RJ45 PoE Ports 4* 10G SFP Ports
Management port	1* Console port
LED Indicators	Power, Link/Act, PoE

PERFORMANCE

Switching Capacity	96 Gbps
Forwarding Capacity	71.4 Mpps
Forwarding Mode	Store and forward
Packet Buffer Memory	12 Mbit
RAM for CPU	2 Gbit
Flash Memory	512 Mbit
MAC Address Table	16K
Max. Jumbo Frame size	16KB
ACL Table	1K
VLAN Quantity	4K
VLAN Interface	512
Routing Host	512
Routing Entries	64
Port Queues	8
PoE Budget	720W Max

PHYSICAL CHARACTERISTICS

Dimension (mm)	147 x 143 x 87.5 mm
Installation	DIN Rail
Weight	3.5Kg

ENVIRONMENTAL

Working Temperature	-40 to +75°C
Storage Temperature	-40 to +85°C
Operating Humidity	5% to 95% RH Noncondensing

POWER OVER ETHERNET

PoE Interfaces	Ports 1-8
PoE Standard	IEEE802.3bt, Type-4
Max. PoE Wattage per Port	90W
PoE Voltage	Depend on Power Input
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, PoE Schedule, PD Alive Auto Check

POWER

Power Method	44 to 57VDC
Max. Power Consumption	Including PoE Output: 740W Excluding PoE Output: 20W

SOFTWARE FEATURES

PORT CONFIGURATION

Enable and disable	Support control enables 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 8 maximum aggregation groups, each 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

IGMP Snooping	Support IGMP snooping
Group address	Support group address
VLAN Based on 802.1Q	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Guest VLAN	Support
Private VLAN	Support

RELIABILITY PROTOCOL

Spanning Tree	Support STP/RSTP/MSTP
BPDU Guard	Support
BPDU Filter	Support
Port Loop Detection	Support
EAPS Protocol	Support RFC3619
LLDP Protocol	Support LLDP and LLDP-MED
UDLD Protocol	Totally compatible with UDLD protocol of CISCO

LAYER 3 FUNCTIONS

Static ARP & Dynamic ARP	Support
Static Routing	Support
Policy Routing	Support
RIP	Support RIP v1/v2
OSPF	Support OSPF v2
VRRP	Support

MULTICAST

Static Multicast MAC Address	Support
IGMP SNOOPING	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)

Scheduling Mode	Support WRR, SP, WFQ
Sorting Based on Port	Support
Sorting Based on 802.1p	Support
Sorting Based on DSCP(DiffServ)	Support

DHCP

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

SECURITY

Administrative Security	Support start 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 connects to DHCP server, to prevent privately connect to DHCP sever

Prevent ARP Spoofing

Support manual configures 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

MANAGEMENT FEATURES

CLI Management

Support serial port management
Support TELNET management
Support SSH management

WEB Management

Support

SNMP Management

Support SNMP protocol
Support SNMP TRAP
Support standard and private MIB

User management

Support multi-user management

Show CPU Utilization

Support

Show RAM Utilization

Support

Log Management

Support

Configuration Download / Upload

Support

Upgrade Firmware

Support

Timer Management

Support Local Timer Management
Support SNTP protocol get clock

DEBUGGING TOOLS

PING

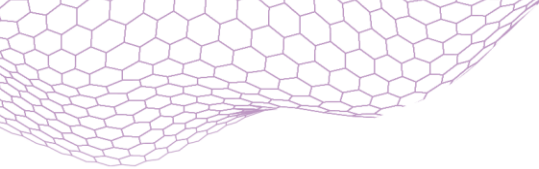
Support

TRACEROUTE

Support

TELNET Client

Support



APPROVAL AND STANDARD TESTED FOR

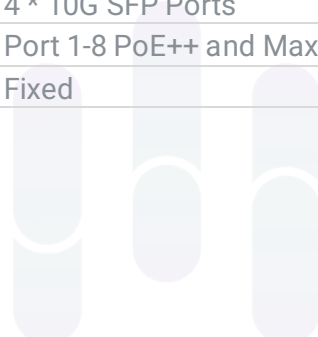
EMC Safety tested for

FCC, CE Class A, LVD, RoHS

ORDERING CODE

DDPSMG 408-4S+-bt Hi

DDPSMG	Layer 3 Din-Rail Industrial Managed PoE Switch
408	8 * 10/100/1000Base-T PoE ports
4S+	4 * 10G SFP Ports
bt	Port 1-8 PoE++ and Max. PoE Wattage per Port :90W
Hi	Fixed



DATA BRIDGE
D Y N A M I C