DMP1284GF Industrial Managed PoE Giga Switch

Description

DMP1284GF Industrial PoE Gigabit managed switch is designed to meet rigorous mission critical applications, such as factory automation, intelligent transportation system (ITS), process control and also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. DMP1284GF provides a reliable infrastructure for your industrial automation applications. It supports 802.3af/at Power over Ethernet (POE), with a range of PoE power budgets upto 200W.

DMP1284GF support the Ethernet Ring Protection protocol, recovering time can be less than 20ms; VLAN, QINQ, STP/RSTP. It supports QOS, ACL multicast, many rich Layer 2 exchange function, and providing CLI, Telnet, SSH, Http, Https and other network management software based on SNMPv1/v2c/v3. This switch can be managed centrally and conveniently by ‘H-View” Element Management System, the whole network equipment can be managed at central office.

Features

- Comply with IEEE 802.3, 802.3u, 802.3/ab 10/100/1000BASE-T and other international standards
- Comply with IP40 enclosure
- IEEE802.3af/at port support standard PoE power supply, power up to 30W maximum power supply
- Automatic detection and recognition of the receiving equipment in accordance with IEEE802.3af/at standard
- Support cable fault detection, a key to restart and restore the factory function
- Comply with CE, FCC and other related standards
- Support spanning tree (STP), fast spanning tree (RSTP) protocol and multi spanning tree (MSTP) protocol
- Support VLAN 802.1Q, basic QinQ and flexible QinQ, support up to VLAN 4K table entry
- Support port aggregation and 1:1 port protection
- Support IEEE802.3ah, IEEE802.1ag and Y.1731 OAM Management Protocol

- Support for unified network management and Web Server configuration based on SNMP protocol
- Support Dying Gasp remote equipment fail alarm
- Support Ethernet ring network protocol ERPS, support ring protection protocol, protection switching time is less than 20ms
- Based on port aggregation, linear protection based on G.8031 protocol and the protection of the ring network based on G.8032 protocol;
- Support port loopback detection and device online upgrade
- It automatically pings the device on a configured schedule and if the device does not respond to the configured number of pings the switch toggles the PoE power on the port which automatically resets the device.

Specification

Standard

IEEE 802.3	10Base-T 10Mbit/s Ethernet
IEEE 802.3u	100Base-TX, 100Base-FX, Fast Ethernet
IEEE 802.3ab	1000Base-T Gigabit/s Ethernet over twisted pair
IEEE 802.3z	1000Base-X Gigabit/s Ethernet over Fiber-Optic
IEEE 802.1d	STP (Spanning Tree Protocol)
IEEE 802.1w	RSTP (Rapid Spanning Tree Protocol)
IEEE 802.1s	MSTP (Multiple Spanning Tree Protocol)
ITU-T G.8032 /Y.1344	ERPS (Ethernet Ring Protection Switching)
IEEE 802.1Q	Virtual LANs (VLAN)
IEEE 802.1X	Port based and MAC based Network Access Control, Authentication
IEEE 802.3ad	Link aggregation for parallel links with LACP(Link Aggregation Control Protocol)
IEEE 802.3x	Flow control for Full Duplex
IEEE 802.1ad	Stacked VLANs, Q-in-Q
IEEE 802.1p	LAN Layer 2 QoS/CoS Protocol for Traffic Prioritization
IEEE 802.1ab	Link Layer Discovery Protocol (LLDP)
IEEE 802.3af	PoE (Power over Ethernet)
IEEE 802.3at	PoE+ (Power over Ethernet enhancements)

Protocols

IGMPv1/v2/v3, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, , TFTP, SNTP, SMTP, RARP, RMON, HTTP, HTTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH, LLDP, IPv6, NTP

Switch Properties

Priority Queues:	8
VLAN ID Range:	VID 1 to 4094
IGMP Groups:	2048
MAC Table Size:	8 K
Packet Buffer Size:	4 Mbit
Switching capacity	53G

Interface

RJ45 Ports:	4 or 8 10/100/1000M Base T adaptive
Fiber Ports:	2~4 100/1000M Base SFP
Console Port:	RS-232 (RJ-45)
Button	Reset button

PoE

Standard	IEEE 802.3at/ 802.3af
Ping Assignment	PoE supports (Pin1, 2 for Positive (V+), Pin3, 6 for Negative(V-)
PoE Schedule	Supported
Auto Reset power	Supported

Certification

EMC	CE
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A, CE
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-3-2 EN61000-3-3 EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (Burst) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-8 (PFMF, Magnetic Field) Field Strength E55032 EN55024 CISPR 32 EN60950-1
FCC	PART15B

Operation

Temperature	-40 to 75°C
Humidity	5 to 95% non-condensing

Power

DC	48 VDC

Dimension

Size(W x H x D)	54 X182 X 122 mm

Software features

VLAN	VLAN IEEE 802.1q VLAN, up to 4094 802.1Q VLAN VID
	IEEE 802.1q VLAN, up to 4094 Groups
	IEEE 802.1ad Q-in-Q
	MAC-based VLAN, up to 256 entries
	IP Subnet-based VLAN, up to 128 entries
	Protocol-based VLAN (Ethernet, SNAP, LLC), up to 128 entries
	VLAN Translation, up to 256 entries
	GVRP (GARP VLAN Registration Protocol)
	MVR (Multicast VLAN Registration)
Link Aggregation	Static (Hash with SA, DA, IP, TCP/UDP port), up to 14 trunk group
	Dynamic (IEEE 802.3ad LACP), up to 14 trunk group
	Per group up-to 8 port
Spanning Tree	IEEE802.1d STP, IEEE802.1w RSTP, IEEE802.1s MSTP
Loop Protection	Supported
ITU-T G.8032 / Y.1344 ERPS	Recovery time <20ms

QoS

Class of Service	IEEE802.1p 8 active priorities queues for per port
Traffic Classification QoS	IEEE802.1p based CoS
	IP Precedence based CoS
	IP DSCP based CoS
	QCL(QoS Control List): Frame Type, Source/
	Destination MAC, VLAN ID, PCP, DEI
	QCE(QoS Control Entry): Protocol, Source IP, IP
	Fragment, DSCP, TCP/UDP port number
Bandwidth Control for Ingress	Per port based
Bandwidth Control for Egress	Per port based Per queue / Per port shaper
DiffServ	Remarking
Storm Control	Unicast, Broadcast, Multicast

IP Multicasting

IGMP / MLD Snooping	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2 Port Filtering Profile
	Throttling, Fast Leave Maximum Multicast Group : up to 1022 entries

	Query / Static Router Port

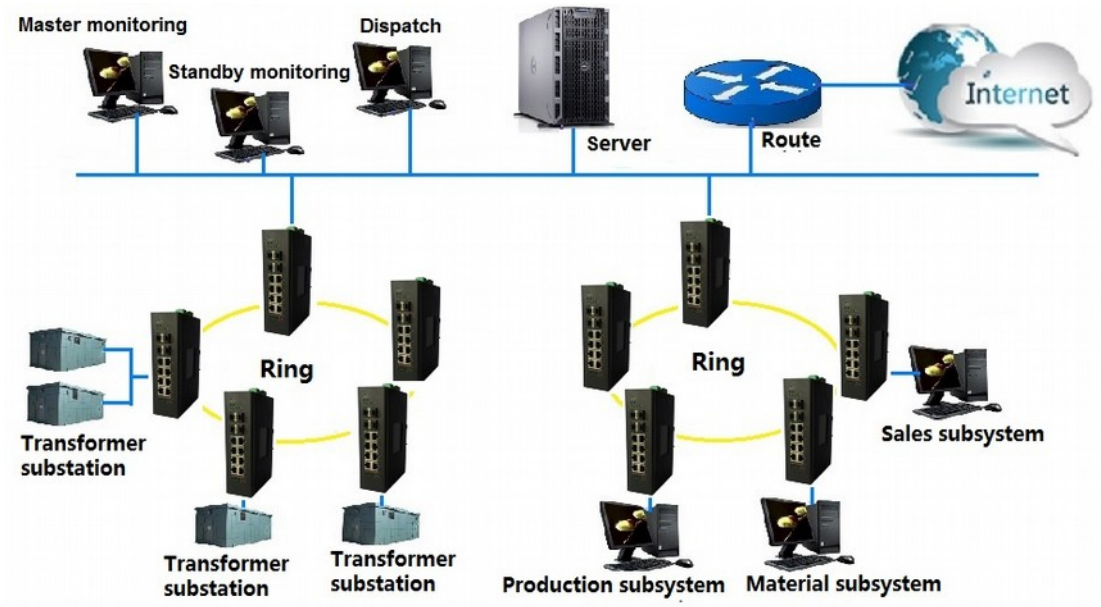
Security

IEEE 802.1X	Port-Based, MAC-Based
ACL	up to 256 entries for L2 / L3 / L4
	L2 : Mac address SA/DA/VLAN
	L3: IP address SA/DA, Subnet
	L4: TCP/UDP
RADIUS	Authentication & Accounting
TACACS+	Authentication & Accounting
SSH	Supported

Management

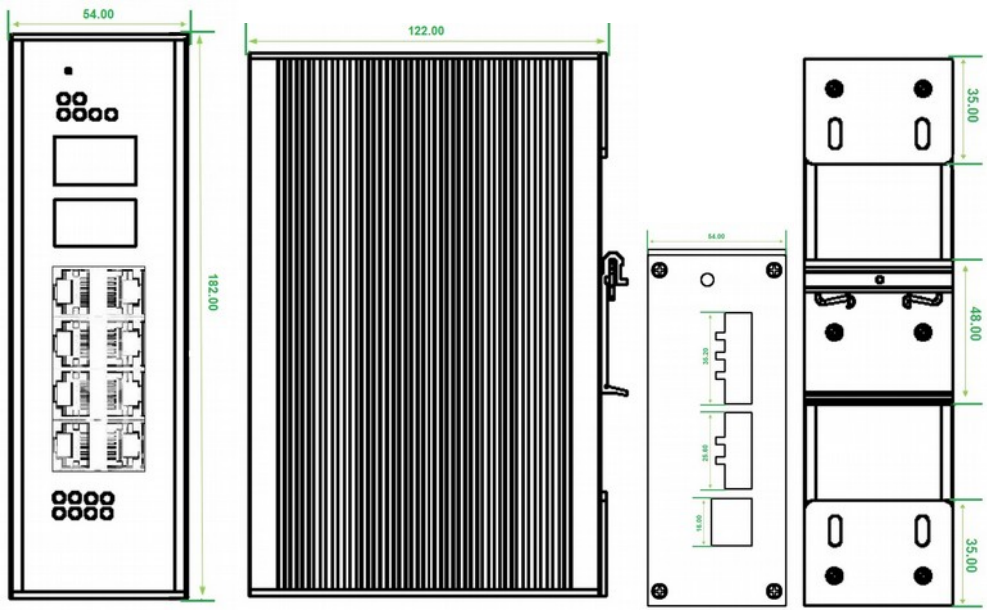
CLI	
CLI	Cisco® like CLI
Web Based Management	
Telnet	Server
SNMP	V1, V2c, V3
SW & Configuration	HTTP
Upgrade	
RMON	RMON I (1, 2, 3, 9 group), RMON II
MIB	RFC1213 MIB II, Private MIB
DHCP	Server, Client, Relay, Snooping, Snooping option 82, Relay
	option 82
IP Source Guard	Supported
Port Mirroring	Supported

Application



Dimension

DMP1284GF



Front View Side View Top View Rear View

Ordering information

Model	Managed	Gigabit LAN Switch			Power supply	CE	Operating
	L2+	# port	UTP	SFP		FCC	temperature
DMP1284GF	•	12	8	4	48 VDC	•	-40 to 75°C

DMP844GF	●	8	4	4	48 VDC	●	-40 to 75°C
DMP1183GF	●	11	8	3	48 VDC	●	-40 to 75°C
DMP1082GF	●	10	8	2	48 VDC	●	-40 to 75°C
DMP642GF	●	6	4	2	48 VDC	●	-40 to 75°C