24-port Industrial Managed Gigabit Switch

DM2412GF (12 x UTP, 12 x SFP)

Description

DM2412GF Industrial 24-port Gigabit Ethernet switch with management function 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. DM2412GF Gigabit Managed Switches provides a reliable infrastructure for your industrial automation applications.

DM2412GF support the proprietary M-Ring ring protection protocol, healing time can be less than 20ms, VLAN, QINQ, STP/RSTP, support QOS, ACL multicast, rich two layer exchange function, while providing CLI, Telnet, SSH, Http, Https and other management and network management software based on SNMPv1/v2c/v3.

Features

- ◆ Comply with IEEE 802.3, 802.3u, 802.3/ab 10/100/1000BASE-T and other international standards
- ◆ Support IP4.0
- ◆ 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, 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

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)

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	48G

Interface

RJ45 Ports:	12 10/100/1000M Base T adaptive
Fiber Ports:	12 100/1000M Base SFP
Console Port:	RS-232 (RJ-45)
Alarm Contact:	Normal Close, Normal Open
Button	Reset button

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
	EN55032
	EN55024
	CISPR 32
	EN60950-1
FCC	PART15B

Management Feature

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

Operation

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

Power

AC	90~260 VAC

Dimension

Size(W x H x D)	440 x 44 x 300mm