10-port L2 Gigabit Ethernet Switch

TS-2008G-2DGS

10-port Layer 2 Managed Gigabit Ethernet Switch

Full Gigabit Ethernet Switch with 1G/2.5Gbps fiber uplink interfaces

Overview

Teroline's TS-2008G-2DGS is a Layer 2 managed full Gigabit Ethernet Switch with 8 x 10/100/1000Base-T RJ45 ports and 2 x 1G/2.5GbE SFP ports. It is featured with full L2 features such as VLAN, QoS, IGMP, Port Mirroring, LLDP, security, G.8032 ERPS ring protection and IPv4/6 based network management.

TS-2008G-2DGS is an ideal solution featured with wire-speed high-performance switching capability for small and medium enterprises as well as cost efficient L2 WAN access application scenarios. Designed with 5-16VDC external power adapter and compact form factor, it's environment-friendly with a fan-less enclosure for energy-saving and natural heat dissipation. It supports various means of configuration and management, including CLI, secure web and standard SNMP, thus applicable for various SME L2 cost-efficient leased-line service access and Active Ethernet based FTTB/FTTC residential broadband access scenarios.

Key features

> 2 x 1G/2.5GbE SFP fiber interfaces and 8 x 10/100/1000BASE-T RJ45 LAN interfaces, one RJ45 Console interface

> Full L2 switching functions and IPv4/IPv6 network management

> ITU-T G.8032 standard ERPS Ring with sub-20ms switchover time

> Up to 10K Bytes Jumbo Frame support

> Various configuration and management ways such as CLI/web/SNMP

> Desktop, Fan-less design without acoustic noise

> 4KV surge protection on Ethernet LAN ports

> External AC to DC5-16V power adapter for safe and easy indoor use

Specifications

Interface Specifications	Fiber port	2 * 1G/2.5GbE SFP
	Copper port	8 * 10/100/1000Base-T (RJ45)
	Management Port	1 * RJ45 Console
	Reset button	Reset the switch to factory default
Power Specifications	Input voltage	5-16VDC, external power adapter
	Power consumption	≤ 10W (full load)
	Over-voltage protection	Supported on power adapter
LED Indicators	1 – PWR (Green)	Power on indicator
	2 – SYS (Green)	System working status indicator
	3 – LNK/ACT (Green)	RJ45 port link up/down/act indicator per port
	4 – SPEED (Yellow)	RJ45 port speed indicator per port
	5 – LNK/ACT (Green)	SFP port link up/down/act indicator per port
Specifications	Switching capacity	20Gbps
	Packet forwarding rate	14.88Mpps
	MAC address table	16K
	VLAN	4K
	Buffer	12Mb
	Forwarding delay	< 5us
	Jumbo frame	10K bytes
	Auto MDI/MDIX	Supported
	Watchdog	Supported
L2 Switching	Link Aggregation	Static and dynamic Link Aggregation
	Port-based Features	IEEE 802.3x flow control Port-based traffic statistics Port isolation Broadcast storm control
	VLAN	Access, trunk and hybrid mode VLAN tagging based on MAC/IP/protocol Port-based Q-in-Q Flexible Q-in-Q
	Port Mirroring	Multiple to one port mirroring
	Ring Protection	STP/RSTP/MSTP ITU-T G.8032 ERPS, sub-20ms switchover time
	DHCP	DHCP Client DHCP Snooping
	Multicast	IGMPv1, v2 & v3 IGMP Snooping
	ACL	ACL policies based on MAC/IP
	Quality of Service (QoS)	Ingress/egress port-based rate-limiting QoS class remarking Support policy-based QoS SP and WRR queue scheduling
	Security	IEEE 802.1x port/MAC authentication RADIUS IP Source Guard, port/MAC/IP binding ARP inspection and filtering

	Management and Maintenance	HTTP/HTTPS web management
		SNMPv1/v2c/v3 support
		Support IPv6 for management
		Syslog and alarm classification
		Support RMON
		Support LLDP
		Support NTP
		Support optic transceiver DDM
		Support Ping/Tracert for diagnosis
		Support Telnet and SSH connection
		Support TFTP and web for upgrade
Standards	IEEE 802.3	10BASE-T
	IEEE 802.3u	100BASE-TX
	IEEE 802.3ab	1000BASE-T
	IEEE 802.3z	1000Base-X
	IEEE 802.3x	Full-duplex flow control
	IEEE 802.1d/w	Spanning Tree/Rapid Spanning Tree
	IEEE 802.1Q	VLAN
	IEEE 802.1X	Port Authentication
	IEEE 802.1ab	LLDP
	IEEE 802.3ad	LACP
	ITU-T G.8032	ERPS
Environment	Operating temperature	0°C to +50°C
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)
	Thermal design	Fan-less, natural heat dissipation
	MTBF	100,000 hours
Standards compliance	Ethernet port surge protection	IEC 61000-4-5 Level 4: 4KV (10/700us)
	EMI	FCC Part 15B Class A
	Certifications	CE, FCC, RoHS
Physical parameters	Dimensions	152(W)*115(D)*44(H)mm
	Installation Method	Desktop
Warranty	Standard Warranty	2 years

Ordering information

Model	Description
TS-2008G-2DGS	L2 managed Gigabit Ethernet Switch, 8x10/100/1000Base-T RJ45 + 2x1G/2.5GbE SFP ports, DC 5-16V power adapter, desktop, operation temperature: 0°C to +50°C