



52-port L2+ 10GbE PoE Switch

TS-2048GP-4XS

52-port Layer 2+
Managed 10Gigabit
Ethernet PoE Switch

*Full Gigabit Ethernet
PoE Switch with 10Gbps
fiber uplink interfaces*

Overview

Teroline's TS-2048GP-4XS series are Layer 2+ managed full Gigabit Ethernet PoE Switches with 48 x 10/100/1000Base-T RJ45 PoE ports and 4 x 1G/2.5G/10GbE SFP+ ports. It is featured with static L3 routing and full L2 features such as VLAN, QoS, IGMP, Port Mirroring, LLDP, security, G.8032 ERPS ring protection and IPv4/6 based network management.

TS-2048GP-4XS is an ideal solution featured with wire-speed high-performance switching capability for small and medium enterprises as well as cost efficient L2/static-L3 WAN access application scenarios. Designed with a built-in wide-range AC power supply and standard 1RU 19-inch pizzabox, it's environment-friendly with a controllable fan for energy-saving and noise reduction. 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, video surveillance and Active Ethernet based FTTB/FTTC residential broadband access scenarios.

Key features

- > 4 x 1G/2.5G/10GbE SFP+ fiber interfaces and 48 x 10/100/1000BASE-T RJ45 PoE LAN interfaces, one RJ45 Console interface
- > Static L3 routing and full L2 switching functions and IPv4/IPv6 network management
- > ITU-T G.8032 standard ERPS Ring with sub-20ms switchover time
- > Up to 30W 802.3af/at PoE+ output per port with watchdog function
- > Up to 10K Bytes Jumbo Frame support
- > Various configuration and management ways such as CLI/web/SNMP
- > 1RU 19" rack mounted, wide-range AC power supply
- > 6KV/4KV surge protection on power and Ethernet LAN ports respectively

Specifications

Interface Specifications	Fiber port	4 * 1G/2.5G/10GbE SFP+	
	Copper port	48 * 10/100/1000Base-T PoE (RJ45)	
	Management Port	1 * RJ45 Console	
	Reset button	Reset the switch to factory default	
Power Specifications	Input voltage	100-240VAC, 50/60Hz Built-in power supply	
	Power consumption	≤ 440W (370W PoE) total, TS-2048GP-4XS-440 ≤ 650W (600W PoE) total, TS-2048GP-4XS-650 ≤ 850W (740W PoE) total, TS-2048GP-4XS-850	
	Over-voltage protection	Supported	
	Over-current protection	Supported	
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 – PoE (Yellow)	RJ45 PoE status indicator per port	
	5 – LNK/ACT (Green)	SFP port link up/down/act indicator per port	
Specifications	Switching capacity	352Gbps	
	Packet forwarding rate	236Mpps	
	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 PoE management Support TFTP and web for upgrade
L3 Routing Standards	IPv4/IPv6	Static routing
	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
	IEEE 802.3af/at	PoE/PoE+
Environment	Operating temperature	0°C to +50°C
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)
	Thermal design	Controllable fans
	MTBF	100,000 hours
Standards compliance	Power port surge protection	IEC 61000-4-5 6KV (8/20us)
	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	440(W)*300(D)*44(H)mm
	Installation Method	19-inch 1RU rack mounted
Warranty	Standard Warranty	2 years

Ordering information

Model	Description
TS-2048GP-4XS-370	L2+ managed 10Gigabit Ethernet PoE Switch, 48x10/100/1000Base-T RJ45 PoE + 4x1G/2.5G/10GbE SFP+ ports, AC100-240V, 50/60Hz built-in power supply, 370W PoE budget, 19-inch 1RU rack mounted, operation temperature: 0°C to +50°C
TS-2048GP-4XS-600	L2+ managed 10Gigabit Ethernet PoE Switch, 48x10/100/1000Base-T RJ45 PoE + 4x1G/2.5G/10GbE SFP+ ports, AC100-240V, 50/60Hz built-in power supply, 600W PoE budget, 19-inch 1RU rack mounted, operation temperature: 0°C to +50°C
TS-2048GP-4XS-740	L2+ managed 10Gigabit Ethernet PoE Switch, 48x10/100/1000Base-T RJ45 PoE + 4x1G/2.5G/10GbE SFP+ ports, AC100-240V, 50/60Hz built-in power supply, 740W PoE budget, 19-inch 1RU rack mounted, operation temperature: 0°C to +50°C