





TI-5016GS-8GC-4XS-D

28-port Aggregation Industrial Ethernet L3 Switch

L3 Rack-mountable with 10Gbps fiber uplink interfaces

Overview

Teroline's TI-5016GS-8GC-4XS-D is a L3 rack-mountable Aggregation Industrial Ethernet Switch with 16 x 100/1000Base-X SFP ports, 8 x 1GbE Combo ports and 4 x 1G/2.5G/10GbE SFP+ ports, DI/DO/RS485/Modbus data port as well as a USB port for configuration and firmware upgrade. It is featured with L3 static and dynamic routing with full L2 features as well as IPv4/6 based network management.

TI-5016GS-8GC-4XS-D is an ideal solution designed with dual redundant AC or DC power supplies and over-voltage protection, enclosed in a robust standard 1RU 19-inch rack mountable IP40 fan-less housing to support extended operation temperature from -40°C to 80°C as well as enhanced EMI/EMC capability. It is a powerful and easy-to-deploy L2 aggregation switch for most industrial environment, such as manufacturing, transportation, electricity, oil & gas, chemistry, video surveillance and other various industry automation networks.

Key features

- > 4 x 1G/2.5G/10GbE SFP+ fiber interfaces, 16 x 100/1000BASE-X SFP and 8 x 1GbE Combo LAN interfaces, 1 DI/DO/RS485/Modbus interface and 1 USB interface
- L3 static and dynamic routing, full L2 switching functions and network management
- ITU-T G.8032 standard ERPS Ring with sub-20ms switchover time >
- Up to 10K Bytes Jumbo Frame support >
- IP40 protection level, Fan-less design, and DIN-rail mounted >
- 6KV surge protection; ESD: 8KV/contact, 15KV/air protection >
- Dual redundant AC or DC power supplies, with reverse & over-voltage protection >
- Operation temperature from -40 to +80°C

🖂 Mókus u. 5, 8600 Siófok, HUNGARY

R info@teroline.eu



Specifications

Interface	Fiber port	4 * 1GbE/2.5GbE/10GbE SFP+
Specifications		16 * 100/1000Base-X SFP
		8 * 1000Base-X SFP (in Combo)
	Copper port	8 * 10/100/1000Base-T (RJ45 in Combo)
	Management Port	1 * RJ45 Console
	Managemener ore	1 * USB 2.0 for configuration & upgrade
	Data Port	1 * RS-485
		1 * Digital Input
		1 * Digital Output
Power	Input voltage	36-75VDC
Specifications		100-240VAC
		Redundant power supplies
	Input current	1.2А тах
	Power consumption	≤ 40W (full load)
	Power interface	2 * 2-pin terminal block
	Reverse polarity protection	Supported
	Over-voltage protection	Supported
	Over-current protection	Supported
LED Indicators	1 – PWR (Green)	Power on indicator
	2 – SYS (Green)	PoE working status indicator
	3 – USB (Green)	USB port working status indicator
	4 – ALM (Red)	Fault alarm indicator
	5 – LNK/ACT (Green)	RJ45 port link up/down/act indicator per port
	6 – SPEED (Yellow)	RJ45 port speed indicator per port
	7 – LNK/ACT (Green)	SFP port link up/down/act indicator per port
Specifications	Switching capacity	128Gbps
	Packet forwarding rate	190.4Mpps
	MAC address table	16K
	VLAN	4К
	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
		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	DHCP Client DHCP Snooping

🖂 Mókus u. 5, 8600 Siófok, HUNGARY

info@teroline.eu



Product Datasheet

		IGMP Snooping
	ACL	ACL policies based on MAC/IP
	Quality of Service (QoS)	Ingress port-based rate-limiting
		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	HTTP/HTTPS web management
	Maintenance	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
		Support USB port configuration and upgrade
L3 Routing	ARP	ARP table aging
	Routing entry	13К
	IPv4/IPv6	Static routing
	ECMP	ECMP
		ECMP max next-hop configuration
		Capacity balanced configuration
	Route policy	IPv4 prefix-list
	Redundancy	Support VRRP
	IP Routing Protocol	RIP v1/v2
	2	OSPF v2
		IS-IS v4
		BGP4, supporting routing recursive ECMP
		Viewing the number of neighbors and states
Standards	IEEE 802.3	10BASE-T
	IEEE 802.3u	100BASE-TX
	IEEE 802.3ab	1000BASE-T
	IEEE 802.3z	1000Base-X
	IEEE 802.3ae	10Gb/s Ethernet
	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	-40°C to +80°C
	Storage temperature	-40°C to +85°C
	Relative humidity	5% to 95% (non-condensing)
	Thermal design	Fan-less, natural heat dissipation
		ו מודופסט, וומנטו מו וופמנ טוטטוףמנוטוו

info@teroline.eu

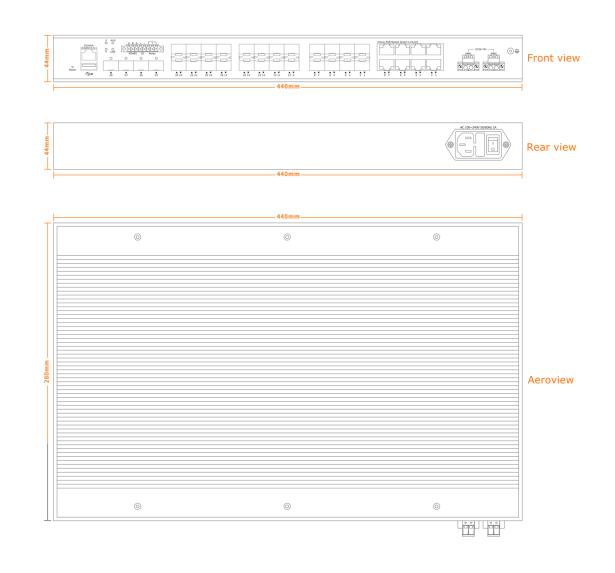


Product Datasheet 4

	MTBF	100,000 hours
Standards	Power surge protection	IEC 61000-4-5 (6KV/6KV) (8/20us)
compliance		
	Ethernet port surge	IEC 61000-4-5 (6KV/2KV) (10/700us)
	protection	
	ESD	IEC 61000-4-2 Level 4 (8K/15K)
	RS	IEC 61000-4-3 80MHz-1GHz: 10V/m
	EFT	IEC 61000-4-4 4K/2K
	CS	IEC 61000-4-6 10V
	Shock	IEC 60068-2-27
	Free fall	IEC 60068-2-32
	Vibration	IEC 60068-2-6
	EMI	FCC Part 15B Class A
	Certifications	CE, FCC, RoHS
Physical	Dimensions	440(W)*280(D)*44(H)mm
parameters		
	Weight	Net weight 5KG
	Protection Level	IP40
	Installation Method	19" 1U rack mounted
Warranty	Standard Warranty	5 years



Physical dimensions



Ordering information

-
Description
L3 Managed Industrial Ethernet Switch, 16x100/1000Base-X SFP + 8x1GbE
Combo + 4x1G/2.5G/10GbE SFP+ ports, dual redundant 100-240VAC 50/60Hz
power supplies, 19" 1RU rack mounted, operation temperature: -40°C to +80°C
L3 Managed Industrial Ethernet Switch, 16x100/1000Base-X SFP + 8x1GbE
Combo + 4x1G/2.5G/10GbE SFP+ ports, 100-240VAC 50/60Hz and 36-75VDC
power supplies, 19" 1RU rack mounted, operation temperature: -40°C to +80°C
L3 Managed Industrial Ethernet Switch, 16x100/1000Base-X SFP + 8x1GbE
Combo + 4x1G/2.5G/10GbE SFP+ ports, dual redundant 36-75VDC power
supplies, 19" 1RU rack mounted, operation temperature: -40°C to +80°C