

# FL SWITCH 5916SFP-8GC-4SFP+ - Industrial Ethernet Switch



1525943

<https://www.phoenixcontact.com/us/products/1525943>

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Managed TSN Switch 5000 series, 16 SFP ports 1000 Mbps, 4 SFP+ ports 1000/10000 Mbps, 8 Combo ports, degree of protection: IP20, Ambient temperature (operation): -10 °C ... 60 °C, Supply voltage range: 100 V AC ... 240 V AC, PROFINET Conformance Class B, Development process certified in accordance with IEC 62443-4-1, Compatible with IEC 62443-4-2



## Product description

CC-Link IE TSN Class B

## Your advantages

- Realization of innovative TSN applications with precise time synchronization in accordance with IEEE 802.1AS, frame preemption and PROFINET stream
- Extensive options for setting up decentral and time-critical applications
- Improved performance, robustness, and availability of Ethernet networks
- Can be used in classic applications as well as TSN networks
- Supports all functions of the FL SWITCH 2300 series

## Commercial data

Item number	1525943
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN127
GTIN	4063151994952
Weight per piece (including packing)	6,175 g
Weight per piece (excluding packing)	4,775 g
Customs tariff number	85176200
Country of origin	TW

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## Technical data

### Dimensions

Width	442 mm
Height	44 mm
Depth	375 mm

### Material specifications

Color (Housing)	white aluminium (RAL 9006)
Housing material	Metal

### Mounting

Mounting type	Rack mounting (with holder)
Holder system	19" rack

### Interfaces

#### Ethernet (SFP)

Number of interfaces	16
Connection method	SFP
Transmission speed	1000 Mbps (full duplex, 100 Mbit not supported on port 1-16!)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	16 (SFP ports)

#### Ethernet (combo)

Number of interfaces	8
Connection method	SFP/RJ45
Transmission speed	10/100/1000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	8 (Combo ports)

#### Ethernet (SFP+)

Number of interfaces	4
Connection method	SFP
Transmission speed	1000/10000 Mbps (full duplex)
Transmission physics	Depending on the SFP module
Transmission length	up to 80 km (Depending on the fiber/SFP module used)
Signal LEDs	Data receive, link status
No. of channels	4 (SFP+ ports)

## Product properties

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Product type	Switch
Product family	Managed TSN Switch 5000
Type	Stand-alone
MTTF	217.2 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	89.9 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	16.7 Years (SN 29500 standard, temperature 60°C, operating cycle 100%)
Special properties	Development process certified in accordance with IEC 62443-4-1
	Compatible with IEC 62443-4-2

## Insulation characteristics

Protection class	III (VDE 0106)
Degree of pollution	2

## Switch functions

Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
	SysLog
	CRC-Surveillance
Basic functions	Store-and-forward switch, complies with IEEE 802.3
PROFINET conformance class	Conformance Class B
PROFINET device function	PROFINET device
	Fast Startup
Filter functions	Quality of Service (8 priority classes)
	Class of Service
	DiffServ/DSCP
	Port-Priorisierung
	VLAN (up to 32 VLANs)
	IGMP Snooping/Querier (v1/v2)
	Auto-Query-Port
	Extended Multicast Filtering
IP parameterization	DHCP client
	DHCP Option 82 (Relay Agent)
	DHCP server (pool-based, port-based)
	BootP
	DCP (Discovery and Configuration Protocol)
MAC address table	32k
Management	Web-based management (HTTP/HTTPS)
	Role-based user management (LDAP, RADIUS)
	SNMPv1/v2/v3
	Command Line Interface (Telnet, SSH)

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Redundancy	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
	FRD (Fast Ring Detection)
	Large Tree Support
	LACP (Link Aggregation Control Protocol)
	PROFINET S2 system redundancy
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed)
Additional functions	Jumbo frames (max. 9,600 bytes)
	Transmission of MMS and GOOSE (IEC 61850-8-1)
	Transmission of Modbus/TCP
Time synchronization	SNTP (Simple Network Time Protocol)
	gPTP (IEEE 802.1AS)
	IEEE 1588v2 (Transparent Clock)

## Security functions

Port security	MAC-based, RADIUS (IEEE 802.1X), MAC Authentication Bypass
Basic functions	Store-and-forward switch, complies with IEEE 802.3

## Electrical properties

Transmission medium	Copper
	FO

## Supply

Supply voltage range	100 V AC ... 240 V AC (a power supply is included, optional redundant equipment possible)
Max. current consumption	0.77 A (50/60 Hz)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 60 °C
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz
Air pressure (operation)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)
Air pressure (storage/transport)	79 kPa ... 108 kPa up to 2000 m above mean sea level (Without derating)

## Standards and regulations

Free from substances that could impair the application of coating	Yes
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Conformance with EMC directives	EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B
	EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A

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	EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A
	EN 61000-6-2 EN 61000-4-5 (surge) Criterion A
	EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A
	EN 61000-6-2 EN 61000-6-4 (interference) Class A
	EN 61000-6-2 EN 61000-6-4 (conducted interference) Class A
Noise immunity	EN 61000-6-2

## Noise emission

Standards/regulations	EN 61000-6-4
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## System properties

### Functionality

Basic functions	Store-and-forward switch, complies with IEEE 802.3
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## Signaling

Status display	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed)
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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1525943>



**IECEE CB Scheme**

Approval ID: DK-161792-UL



**cULus Listed**

Approval ID: E140403



**KC**

Approval ID: R-R-PCK-1525943

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## Classifications

### ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

### ETIM

ETIM 10.0	EC000734
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	15(a), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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