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

1525942

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Managed TSN Switch 5000 series, 16 RJ45 ports 10/100/1000 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, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

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	1525942
Packing unit	1 pc

Minimum order quantity	1 pc
Sales key	DN17
Product key	DNN127
GTIN	4063151994945
Weight per piece (including packing)	6,274 g
Weight per piece (excluding packing)	4,874 g
Customs tariff number	85176200
Country of origin	TW

Technical data

Dimensions

Width	442 mm
Height	44 mm
Depth	375 mm

Notes

Note on application	Device is supplied without a power cable!
Note on application	As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Material specifications

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

Mounting

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

Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100/1000 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status
No. of channels	16 (RJ45 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)

Output data

Signal contact

Actuation voltage range	100 V AC ... 240 V AC

Product properties

Product type	Switch
Product family	Managed TSN Switch 5000
Type	Stand-alone
MTTF	145.1 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	62.4 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	12.1 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
	The product is being prepared for compliance with the Cyber Resilience Act (CRA)

Insulation characteristics

Protection class	III (VDE 0106)
Degree of pollution	2

Switch functions

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
PROFINET conformance class	Conformance Class B
PROFINET device function	PROFINET device
	Fast Startup
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link/Activity and Speed)
Basic functions	Store-and-forward switch, complies with IEEE 802.3
Management functions	Web-based management (HTTP/HTTPS)
	Role-based user management (LDAP, RADIUS)
	SNMPv1/v2/v3
	Command Line Interface (Telnet, SSH)
	Frame Preemption (IEEE 802.1Qbu)

TSN functions	Streams (in accordance with PROFINET V2.4)
	gPTP (IEEE 802.1AS)
	Time Aware Shaper (IEEE 802.1Qbv)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
	SysLog
	CRC-Surveillance
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
Redundancy functions	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
Time synchronization	SNTP (Simple Network Time Protocol)
	gPTP (IEEE 802.1AS)
	IEEE 1588v2 (Transparent Clock)
Additional functions	Jumbo frames (max. 9,600 bytes)
	Transmission of MMS and GOOSE (IEC 61850-8-1)
	Transmission of Modbus/TCP

Security functions

Port security	MAC-based, RADIUS (IEEE 802.1X), MAC Authentication Bypass

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	0.76 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

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
	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

Signaling

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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1525942

IECEE CB Scheme
Approval ID: DK-161792-UL

cULus Listed
Approval ID: E140403

KC
Approval ID: R-R-PCK-1525942

Classifications

ECLASS

ECLASS-13.0	19170401
ECLASS-15.0	19170401

ETIM

ETIM 10.0	EC000734

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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