

FL SWITCH SMCS 8TX - Industrial Ethernet Switch



2989226

<https://www.phoenixcontact.com/us/products/2989226>

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Ethernet Smart Managed Compact Switch with eight 10/100 Mbps RJ45 ports



Product description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with eight Fast Ethernet ports in RJ45 format.

Your advantages

- RSTP
- MRP (client and manager)
- SNMP
- VLANs
- Web-based management, SNMP

Commercial data

Item number	2989226
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN122
Catalog page	Page 322 (C-6-2019)
GTIN	4046356451864
Weight per piece (including packing)	853.3 g
Weight per piece (excluding packing)	650 g
Customs tariff number	85176200
Country of origin	DE

Technical data

Dimensions

Width	128 mm
Height	110 mm
Depth	69 mm

Material specifications

Color	gray aluminum
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Mounting

Mounting type	DIN rail mounting
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Interfaces

Ethernet (RJ45)

Connection method	RJ45
Note on the connection method	Auto negotiation and autocrossing
Transmission speed	10/100 Mbps
Transmission physics	Copper
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
No. of channels	8 (RJ45 ports)

Serial (RS-232)

Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)
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Product properties

Product type	Switch
Product family	Managed Switch SMCS
Type	Block design

Insulation characteristics

Protection class	III (VDE 0106)
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Switch functions

Diagnostic functions	RMON History
	N:1-Portmirroring
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
Basic functions	ACD (Address Conflict Detection)
	Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP).
Signal contact control voltage	24 V (typical)

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Signal contact control current	600 mA (maximum)
PROFINET conformance class	Conformance-Class B
PROFINET device function	PROFINET device Fast Startup
Filter functions	Quality of Service (4 priority classes) Port-Priorisierung VLAN IGMP Snooping (128 groups) IGMP Query Auto-Query-Port Extended Multicast Filtering Static Multicast Filtering
MAC address table	4000
Management	Web-based management (HTTP) SNMP v1/v2 Serial interface (V.24)
Redundancy	MRP (Media Redundancy Protocol) RSTP (Rapid Spanning Tree Protocol) FRD (Fast Ring Detection) Large Tree Support
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)
Supported browsers	Internet Explorer 5.5 or higher
Additional functions	BootP DHCP-Client
Time synchronization	SNTP
Security functions	
Basic functions	Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP).

Electrical properties

Local diagnostics	US1/2 Supply voltage US1, US2 Green LED
	FAIL Div. LED red
	LINK Link status Green LED
	ACT/MODE Receiving/sending telegrams Green LED
	SPD/MODE Data transmission speed Green/orange LED
	FD/MODE Duplex mode Green LED
Maximum power dissipation for nominal condition	14.4 W
Test voltage	500 V DC
Test section	for one minute 500 V DC
Transmission medium	Copper

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Supply

Supply voltage (DC)	24 V DC (redundant)
Supply voltage range	18 V DC ... 32 V DC
Power supply connection	Via COMBICON, max. conductor cross section 2.5 mm ²
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Typical current consumption	240 mA (at U _S = 24 V DC)
Current consumption	600 mA

Function

Signal contact control voltage	24 V (typical)
Signal contact control current	600 mA (maximum)

Connection data

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross section, flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12
Stripping length	7 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 55 °C (non-condensing)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Vibration (operation)	in accordance with IEC 60068-2-6: 5g, 10 Hz ... 150 Hz
Air pressure (operation)	86 kPa ... 108 kPa (2000 m above mean sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

Standards and regulations

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

Conformance with EMC directives	IEC 61000-6-2 IEC 61000-4-2 (ESD) Criterion A
	IEC 61000-4-3 (electromagnetic fields) Criterion A
	IEC 61000-4-4 (burst) Criterion A
	IEC 61000-4-5 (surge) Criterion A
	IEC 61000-4-6 (immunity to conducted interference) Criterion A
Noise immunity	EN 61000-6-2:2005
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3 +A11

System properties

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Functionality

Basic functions

Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP).

System requirements

Supported browsers

Internet Explorer 5.5 or higher

Signaling

Status display

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

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Classifications

ECLASS

ECLASS-11.0

19170401

UNSPSC

UNSPSC 21.0

43222612

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 6(c), 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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Accessories

COM CAB MINI DIN - Connecting cable

2400127

<https://www.phoenixcontact.com/us/products/2400127>



Connecting cable, for connecting the controller to a PC (RS-232) for PC WORX with flow control, 3 m in length

FL MEM PLUG - Configuration memory

2891259

<https://www.phoenixcontact.com/us/products/2891259>



Exchangeable configuration memory of the device settings for simple device exchange and set-up

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FL MEM PLUG/MRM - Configuration memory

2891275

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Exchangeable configuration memory of the device settings for simple device exchange and set-up. In addition, the Media Redundancy Manager (MRM) license for use is stored within the Media Redundancy protocol (MRP).

FL SNMP OPC SERVER V3 - Driver and interface software

2701139

<https://www.phoenixcontact.com/us/products/2701139>



SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

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FL CAT6 PATCH 0,3 - Patch cable

2891181

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Patch cable, degree of protection: IP20, cable length: 0.3 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 0,5 - Patch cable

2891288

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Patch cable, degree of protection: IP20, cable length: 0.5 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

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FL CAT6 PATCH 1,0 - Patch cable

2891385

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Patch cable, degree of protection: IP20, cable length: 1 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 1,5 - Patch cable

2891482

<https://www.phoenixcontact.com/us/products/2891482>



Patch cable, CAT6, preassembled, 1.5 m

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FL CAT6 PATCH 2,0 - Patch cable

2891589

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 3,0 - Patch cable

2891686

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Patch cable, degree of protection: IP20, cable length: 3 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

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FL CAT6 PATCH 5,0 - Patch cable

2891783

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Patch cable, degree of protection: IP20, cable length: 5 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 7,5 - Patch cable

2891880

<https://www.phoenixcontact.com/us/products/2891880>



Patch cable, degree of protection: IP20, cable length: 7.5 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

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FL CAT6 PATCH 10 - Patch cable

2891877

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Patch cable, degree of protection: IP20, cable length: 10 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 12,5 - Patch cable

2891369

<https://www.phoenixcontact.com/us/products/2891369>



Patch cable, CAT6, preassembled, 12.5 m

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FL CAT6 PATCH 15,0 - Patch cable

2891372

<https://www.phoenixcontact.com/us/products/2891372>



Patch cable, degree of protection: IP20, cable length: 15 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

FL CAT6 PATCH 20,0 - Patch cable

2891576

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Patch cable, degree of protection: IP20, cable length: 20 m, number of positions: 8, 1 Gbps, CAT6, Ethernet

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IPASSIGN - Software

2701094

<https://www.phoenixcontact.com/us/products/2701094>



IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.

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