

# FL SWITCH SMCS 8GT - Industrial Ethernet Switch



2891123

<https://www.phoenixcontact.com/mx/products/2891123>

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Ethernet Smart Managed Compact Switch with eight 10/100/1000 Mbps RJ45 ports



## Product description

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

## Your advantages

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

## Commercial data

Item number	2891123
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	01
Product key	DNN122
Catalog page	Page 322 (C-6-2019)
GTIN	4046356149679
Weight per piece (including packing)	835.1 g
Weight per piece (excluding packing)	650 g
Customs tariff number	84718000
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	10/100/1000 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

Type	Block design
Product type	Switch
Product family	Managed Switch SMCS

#### 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
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).
Link Layer Discovery Protocol (LLDP)	As per protocol 802.2

## 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

## 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 <sup>2</sup>
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Typical current consumption	450 mA (at U <sub>S</sub> = 24 V DC)
Current consumption	600 mA

## Function

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

## Connection data

Connection method	Screw connection
Conductor cross section, rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section, flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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

### ETIM

ETIM 8.0

EC000734

### UNSPSC

UNSPSC 21.0

43222600

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## Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
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## Accessories

### COM CAB MINI DIN - Connecting cable

2400127

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



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

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### FL MEM PLUG - Configuration memory

2891259

<https://www.phoenixcontact.com/mx/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

<https://www.phoenixcontact.com/mx/products/2891275>



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).

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## FL SNMP OPC SERVER V3 - Driver and interface software

2701139

<https://www.phoenixcontact.com/mx/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, CAT6, preassembled, 0.3 m



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## FL CAT6 PATCH 0,5 - Patch cable

2891288

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Patch cable, CAT6, preassembled, 0.5 m



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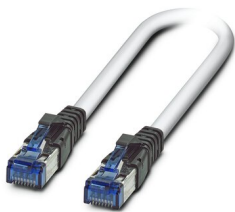
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## FL CAT6 PATCH 1,0 - Patch cable

2891385

<https://www.phoenixcontact.com/mx/products/2891385>



Patch cable, CAT6, preassembled, 1.0 m

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## FL CAT6 PATCH 1,5 - Patch cable

2891482

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Patch cable, CAT6, preassembled, 1.5 m

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## FL CAT6 PATCH 2,0 - Patch cable

2891589

<https://www.phoenixcontact.com/mx/products/2891589>



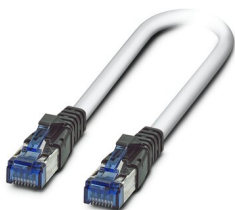
Patch cable, CAT6, preassembled, 2.0 m

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## FL CAT6 PATCH 3,0 - Patch cable

2891686

<https://www.phoenixcontact.com/mx/products/2891686>



Patch cable, CAT6, preassembled, 3.0 m

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## FL CAT6 PATCH 5,0 - Patch cable

2891783

<https://www.phoenixcontact.com/mx/products/2891783>



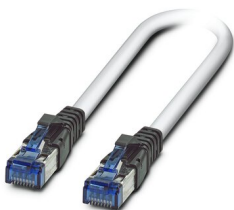
Patch cable, CAT6, preassembled, 5.0 m

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## FL CAT6 PATCH 7,5 - Patch cable

2891880

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Patch cable, CAT6, preassembled, 7.5 m

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## FL CAT6 PATCH 10 - Patch cable

2891877

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Patch cable, CAT6, preassembled, 10 m

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## FL CAT6 PATCH 12,5 - Patch cable

2891369

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



Patch cable, CAT6, preassembled, 12.5 m

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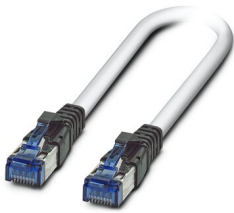
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## FL CAT6 PATCH 15,0 - Patch cable

2891372

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



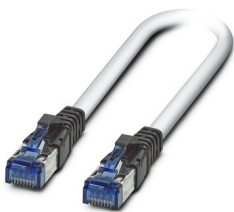
Patch cable, CAT6, preassembled, 15.0 m

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## FL CAT6 PATCH 20,0 - Patch cable

2891576

<https://www.phoenixcontact.com/mx/products/2891576>



Patch cable, CAT6, preassembled, 20.0 m

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## IPASSIGN - Software

2701094

<https://www.phoenixcontact.com/mx/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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