

FL SWITCH SMCS 8TX-PN - Industrial Ethernet Switch



2989103

<https://www.phoenixcontact.com/us/products/2989103>

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Ethernet Smart Managed Compact Switch with eight 10/100 Mbps RJ45 ports, PROFINET mode (default)

Product description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with eight Fast Ethernet ports in RJ45 format. The switch has "PROFINET" mode activated by default.

Your advantages

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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2989103 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DN17 |
| Product key | DNN122 |
| Catalog page | Page 322 (C-6-2019) |
| GTIN | 4046356320757 |
| Weight per piece (including packing) | 730 g |
| Weight per piece (excluding packing) | 650 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Dimensions

| | |
|--------|--------|
| Width | 128 mm |
| Height | 110 mm |
| Depth | 69 mm |

Material specifications

| | |
|-------|---------------|
| Color | gray aluminum |
|-------|---------------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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) |
|-------------------|---|

Product properties

| | |
|----------------|---------------------|
| Product type | Switch |
| Product family | Managed Switch SMCS |
| Type | Block design |

Insulation characteristics

| | |
|------------------|----------------|
| Protection class | III (VDE 0106) |
|------------------|----------------|

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 |

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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 |

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 ... 60 °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 |
|---|-----|

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

<https://www.phoenixcontact.com/us/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).

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

<https://www.phoenixcontact.com/us/products/2891181>



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

<https://www.phoenixcontact.com/us/products/2891288>



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

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



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

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



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

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



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

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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

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



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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