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Ethernet Smart Managed Compact Switch with 16 10/100 Mbps RJ45 ports



Product description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with 16 Fast Ethernet ports in RJ45 format.

Your advantages

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

Commercial data

Item number	2700996
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN17
Product key	DNN122
GTIN	4046356692007
Weight per piece (including packing)	1,133 g
Weight per piece (excluding packing)	1,030 g
Customs tariff number	85176200
Country of origin	DE

FL SWITCH SMCS 16TX - Industrial Ethernet Switch



2700996

<https://www.phoenixcontact.com/us/products/2700996>

Technical data

Dimensions

Width	214 mm
Height	110 mm
Depth	69 mm

Material specifications

Color	gray aluminum
Material base plate	Die-cast aluminum, corrosion-resistant
Housing material	Stainless steel 1.4301

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	16 (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
MTTF	406.72 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	200.07 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	30.21 Years

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)

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	SNMP-Traps
	ACD (Address Conflict Detection)
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).
Signal contact control voltage	24 V (typical)
Signal contact control current	190 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
MAC address table	Static Multicast Filtering
	16000
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

Current consumption	190 mA
Maximum power dissipation for nominal condition	4.56 W
Test section	500 V DC 1 min

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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	200 mA (at U _S = 24 V DC)
Current consumption	190 mA

Function

Signal contact control voltage	24 V (typical)
Signal contact control current	190 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)	-40 °C ... 70 °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 acc. with IEC 60068-2-6: 5g, 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

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

Noise emission

Standards/regulations	EN 61000-6-3
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System properties

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

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)