

## Industrial Ethernet Switch - FL SWITCH SMCS 14TX/2FX - 2700997

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Ethernet Smart Managed Compact Switch with 14 10/100 Mbps RJ45 ports and two 100 Mbps FX-SC multi-mode ports




### Product Description

The Smart Managed Compact Switch (SMCS) is an Ethernet switch suitable for industrial applications with 14 Fast Ethernet ports in RJ45 format and two fiber optic ports in SC multi-mode format.

### Your advantages

- Web-based management, SNMP
- Extended temperature range
- VLANs
- MRP (client and master)
- SNMP
- RSTP

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 692014
GTIN	4046356692014
Weight per Piece (excluding packing)	1,340.000 g
Custom tariff number	85176200
Country of origin	Germany

### Technical data

#### Dimensions

Width	214 mm
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### Dimensions

Height	110 mm
Depth	69 mm

### 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)
Air pressure (operation)	86 kPa ... 108 kPa (2000 m above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

### Interfaces

Interface	Ethernet (RJ45)
No. of ports	14 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Copper
Transmission speed	10/100 Mbps
Transmission length	100 m (per segment)
Signal LEDs	Supply voltage, data transmission, error, link, activity
Interface	Ethernet FO
No. of ports	2 (SC multi-mode)
Transmission physics	multi-mode fiberglass
Transmission speed	100 Mbps (full duplex)
Transmission length	10000 m (depending on the fiber used)
	6400 m (fiberglass with F-G 50/125 0.7 dB/km F1200)
	3000 m (fiberglass with F-G 62.5/125 2.6 dB/km F600)
	2800 m (fiberglass with F-G 50/125 1.6 dB/km F800)
Wavelength	1310 nm
Interface	Serial (RS-232)
Connection method	RS-232-C, 6-pos. MINI-DIN socket (PS/2)

### Function

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).
Management	Web-based management (HTTP)
	SNMP v1/v2

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### Function

	Serial interface (V.24)	
Diagnostic functions	RMON History	
	N:1-Portmirroring	
	LLDP (Link Layer Discovery Protocol)	
	SNMP-Traps	
	ACD (Address Conflict Detection)	
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	
	Redundancy	MRP (Media Redundancy Protocol)
		RSTP (Rapid Spanning Tree Protocol)
FRD (Fast Ring Detection)		
Large Tree Support		
Additional functions	BootP	
	DHCP-Client	
Supported browsers	Internet Explorer 5.5 or higher	
MAC address table	16000	
PROFINET device function	PROFINET device	
	Fast Startup	
PROFINET conformance class	Conformance-Class B	
Time synchronization	SNTP	
Status and diagnostic indicators	LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)	
Signal contact control voltage	24 V (typical)	
Signal contact control current	260 mA (maximum)	

### Security functions

Link Layer Discovery Protocol (LLDP)	As per protocol 802.2
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### Network expansion parameters

Cascading depth	Network, linear, and star structure: any
Maximum conductor length (twisted pair)	100 m

### Supply voltage

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### Supply voltage

Supply voltage	24 V DC (redundant)
Residual ripple	3.6 V <sub>PP</sub> (within the permitted voltage range)
Supply voltage range	18 V DC ... 32 V DC
Typical current consumption	290 mA (at U <sub>S</sub> = 24 V DC)
Current consumption	260 mA

### General

Mounting type	DIN rail
Type AX	Block design
Net weight	1004 g
MTTF	286.27 Years (SN 29500 standard, temperature 25°C, operating cycle 21%)
	149.5 Years (SN 29500 standard, temperature 40°C, operating cycle 34.25%)
	21.69 Years (SN 29500 standard, temperature 70°C, operating cycle 100%)

### Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3
Noise immunity	EN 61000-6-2:2005
Vibration (storage/transport)	5g, 150 Hz, in acc. with IEC 60068-2-6
Free from substances that could impair the application of coating	Yes
Vibration (operation)	in acc. with IEC 60068-2-6: 5g, 150 Hz

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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## Classifications

### eCl@ss

eCl@ss 10.0.1	19170401
eCl@ss 4.0	27250500
eCl@ss 4.1	27250500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106

### ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612
UNSPSC 18.0	43222612
UNSPSC 19.0	43222612
UNSPSC 20.0	43222612
UNSPSC 21.0	43222612

## Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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