



**Product:** SPR20-7TX/2FM-EEC

**Configurator:** SPR20-7TX/2FM-EEC

### Configurator Description

Reliably transmit large amounts of data across any distance with the SPIDER III family of industrial Ethernet switches. These unmanaged switches have plug-and-play capabilities to allow for quick installation and startup - without any tools - to maximize uptime.

### Technical Specifications

#### Product description

Type	SPR20-7TX/2FM-EEC (Product code: SPIDER-PL-20-07T1M2M299TWWHHH )
Description	Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, USB interface for configuration , Fast Ethernet
Part Number	942335030
Port type and quantity	7 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 2 x 100BASE-FX, MM cable, SC sockets

#### More Interfaces

Power supply/signaling contact	1 x plug-in terminal block, 6-pin
USB interface	1 x USB for configuration

#### Network size - length of cable

Twisted pair (TP)	0 - 100 m
Multimode fiber (MM) 50/125 µm	0 - 5000 m (Link Budget at 1310 nm = 0 - 8 dB; A=1 dB/km; BLP = 800 MHz*km)
Multimode fiber (MM) 62.5/125 µm	0 - 4000 m (Link Budget at 1300 nm = 0 - 11 db; A = 1 dB/km; BLP = 500 MHz*km)

#### Network size - cascading

Line - / star topology	any
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#### Power requirements

Current consumption at 24 V DC	Max. 280 mA
Operating Voltage	12/24 V DC (9.6 - 32 V DC), redundant
Power consumption	Max. 6.9 W
Power output in BTU (IT)/h	23.7

#### Diagnostics features

Diagnostic functions	LEDs (power, link status, data, data rate)
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#### Ambient conditions

MTBF	852.056 h (Telcordia)
MTBF (Telcordia SR-332 Issue 3) @ 25°C	2 621 190 h
Operating temperature	-40-+65 °C
Storage/transport temperature	-40-+85 °C
Relative humidity (non-condensing)	10 - 95 %

#### Mechanical construction

Dimensions (WxHxD)	56 x 135 x 117 mm (w/o terminal block)
Weight	510 g
Mounting	DIN rail
Protection class	IP40 metal housing

## Mechanical stability

IEC 60068-2-6 vibration	3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min 1 g, 8.4–150 Hz, 10 cycles, 1 octave/min
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks

## EMC emitted immunity

EN 55022	EN 55032 Class A
FCC CFR47 Part 15	FCC 47CFR Part 15, Class A

## Approvals

Basis Standard	CE, FCC, EN61131
Safety of industrial control equipment	cUL 61010-1/61010-2-201
Hazardous locations	ISA 12.12.01 Class 1 Div. 2; ATEX Zone 2
Shipbuilding	DNVGL
Substation	IEC61850-3; IEEE1613
Railway norm	EN50121-4

## Reliability

Guarantee	60 months (please refer to the terms of guarantee for detailed information)
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## Scope of delivery and accessories

Accessories	Rail Power Supply RPS 30/80 EEC/120 EEC (CC), Wall mounting plate for DIN rail mounting (width 40/70 mm)
Scope of delivery	Device, terminal block, safety instruction

## Further Instructions

Product Documentation	<a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>
Certificates	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>

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