



**Product:** SPR20-8TX/1FM-EEC

**Configurator:** SPR20-8TX/1FM-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

|                        |                                                                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Description            | Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, USB interface for configuration , Fast Ethernet |
| Port type and quantity | 8 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 1 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 |
|------------------------|-----|

### Power requirements

|                                |                                       |
|--------------------------------|---------------------------------------|
| Current consumption at 24 V DC | Max. 200 mA                           |
| Operating Voltage              | 12/24 V DC (9.6 - 32 V DC), redundant |
| Power consumption              | Max. 5.0 W                            |
| Power output in BTU (IT)/h     | 16.9                                  |

### Diagnostics features

|                      |                                            |
|----------------------|--------------------------------------------|
| Diagnostic functions | LEDs (power, link status, data, data rate) |
|----------------------|--------------------------------------------|

### Software

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| Switching | Ingress Storm Protection Jumbo Frames QoS / Port Prioritization (802.1D/p) |
|-----------|----------------------------------------------------------------------------|

### Ambient conditions

|                                    |                       |
|------------------------------------|-----------------------|
| MTBF                               | 954.743 h (Telcordia) |
| 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 |

Reliability

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| Guarantee | 60 months (please refer to the terms of guarantee for detailed information) |
|-----------|-----------------------------------------------------------------------------|

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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