



**Product:** SPIDER-PL-20-07T1S2S299TW9HHHH

**Configurator:** SPIDER-SL /-PL configurator

## 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 | 7 x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity , 2 x 100BASE-FX, SM cable, SC sockets              |

### Product Life Cycle

|                    |            |
|--------------------|------------|
| Availability       | passiv     |
| Last Order Date    | 2023-09-30 |
| Last Delivery Date | 2023-12-31 |

### 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   |
| Single mode fiber (SM) 9/125 µm | 0 - 30 km (Link Budget at 1300 nm = 0 - 16 db; A = 0.4 dB/km; BLP = 3.5 ps/(nm*km)) |

### Network size - cascadiability

|                        |     |
|------------------------|-----|
| Line - / star topology | any |
|------------------------|-----|

### 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) |
|----------------------|--|

### Ambient conditions

|                                    |   |
|------------------------------------|---|
| MTBF                               | 852.056 h (Telcordia) 731.432 h (Telcordia) |
| Operating temperature              | -40+70 °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 interference immunity

|  |  |
|--|--|
| EN 61000-4-2 electrostatic discharge (ESD) | 8 kV contact discharge, 15 kV air discharge                  |
| EN 61000-4-3 electromagnetic field         | 20V/m (80 – 3000 MHz)  |
| EN 61000-4-4 fast transients (burst)       | 4kV power line; 4kV data line                                |
| EN 61000-4-5 surge voltage                 | power line: 2kV (line/earth), 1kV (line/line); 4kV data line |
| EN 61000-4-6 Conducted Immunity            | 10V (150 kHz - 80 MHz)                                       |

### 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 |
| Hazardous locations | ATEX (Zone 2)    |

### 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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