



**Product information**  
**SPIDER II 16TX/2DS-S EEC**  
**942 121-001**

Name	
SPIDER II 16TX/2DS-S EEC	
	
Entry Level Industrial ETHERNET Rail-Switch, Store and Forward Switching Mode, 10/100/1000 Mbit/s Ethernet	
Delivery informations	
Availability	available
Product description	
Description	Entry Level Industrial ETHERNET Rail-Switch, Store and Forward Switching Mode, 10/100/1000 Mbit/s Ethernet
Port type and quantity	16 x 10/100BASE-TX, 2 x FE/GE-SFP Slots, TP-cable, RJ45-sockets, auto-crossing, auto-negotiation, auto-polarity
Type	SPIDER II 16TX/2DS-S EEC
Order No.	942 121 - 001
More interfaces	
Power supply/signaling contact	1 plug-in terminal block, 5-pin / no signaling contact
Network size - length of cable	
Twisted pair (TP)	0 - 100 m
Multimode fiber (MM) 50/125 µm	0 - 550 m, 0 - 7.5 dB link budget (with M-SFP-SX/LC)
Multimode fiber (MM) 62.5/125 µm	0 - 275 m, 0 - 7.5 dB link budget at 850 nm (with M-SFP-SX/LC)
Single mode fiber (SM) 9/125 µm	0 - 20 km, 0 - 11 dB link budget (with M-SFP-LX/LC)
Single mode fiber (LH) 9/125 µm (long haul transceiver)	16 - 80 km, 6 - 22 dB link budget (with M-SFP-LH/LC); 44 - 120 km, 13 - 32 dB link budget (with M-SFP-LH+/LC)
Network size - cascadiability	
Line - / star topology	any
Power requirements	
Operating voltage	18 - 32 V DC redundant
Current consumption at 24 V DC	0.45 A
Power consumption	10.7 W
Service	
Diagnostics	LEDs (power, link status, data, data rate)
Redundancy	
Redundancy functions	n/a
Ambient conditions	
Operating temperature	-40°C to +70°C
Storage/transport temperature	-45°C to +85°C
Relative humidity (non-condensing)	5% to 95%
MTBF	326,298h (Telcordia)
Mechanical construction	
Dimensions (W x H x D)	66 mm x 138 mm x 111 mm
Mounting	DIN Rail 138 mm
Weight	730 g
Protection class	IP30
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (linie/earth), 1 kV (linie/line), 2 kV data line

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price related/commercial respect.



<b>EN 61000-4-6 conducted immunity</b>	10 V (150 kHz - 80 kHz)
<b>EMC emitted immunity</b>	
<b>FCC CFR47 Part 15</b>	FCC CFR47 Part 15 Class A
<b>EN 55022</b>	EN 55022 Class A
<b>Approvals</b>	
<b>Safety of industrial control equipment</b>	cUL 60950-1, cUL 508
<b>Hazardous locations</b>	ISA 12.12.01 Class 1 Div. 2 (pending); ATEX, Zone 2 (pending)
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	Device, terminal block, operating manual
<b>Accessories to order separately</b>	Rail Power Supply RPS 30, RPS 80 EEC or RPS 120 EEC

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