



Part Number: SPIDER II 16TX/2DS-S EEC

Unmanaged 18-port Switch

Product Description

Unmanaged Industrial Ethernet DIN Rail Mount Switch with extended temperature range, 16 x 10/100 Mbit/s RJ 45 2 x 100/1000 Mbit/s SFP socket

Technical Specifications

Product description

Description:	Entry Level Industrial ETHERNET Rail-Switch, Store and Forward Switching Mode, 10/100/1000 Mbit/s Ethernet
Part Number:	942 121-001
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

More Interfaces

Power supply/signaling contact:	1 x plug-in terminal block, 5-pin / no signaling contact
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Network size - length of cable

Twisted pair (TP):	0-100 m
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)
Multimode fiber (MM) 50/125 µm:	0 - 550m, 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)

Network size - cascadiability

Line - / star topology:	any
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Power requirements

Current consumption at 24 V DC:	450 mA
Operating Voltage:	18 - 32 V DC redundant
Power consumption:	10.7 W
Redundancy functions:	n/a

Diagnostics features

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

MTBF (Telcordia SR-332: Gb 25 °C):	326298 h
Operating temperature:	-40-+70 °C
Storage/transport temperature:	-45-+85 °C
Relative humidity (non-condensing):	5-95 %

Mechanical construction

Dimensions (WxHxD):	66 mm x 138 mm x 111 mm
Weight:	730 g
Mounting:	DIN Rail
Protection class:	IP30

Mechanical stability

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
IEC 60068-2-27 shock:	15 g, 11 ms duration, 18 shocks

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 (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz-80 MHz)

EMC emitted immunity

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

Approvals

Safety of industrial control equipment:	cUL 60950-1, cUL 508
Hazardous locations:	ISA 12.12.01 Class 1 Div. 2 (pending) ATEX, Zone 2 (pending)

Scope of delivery and accessories

Accessories to Order Separately:	Rail Power Supply RPS 30, RPS 80 EEC or RPS 120 EEC
Scope of delivery:	Device, terminal block, operating manual

Variants

Item #
942121001

Update and Revision:	Revision Number: 0.50 Revision Date: 05-10-2019
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