



Life cycle

Availability available

Product description

Description Unmanaged, Industrial ETHERNET Rail Switch, fanless design, store and forward switching mode, 10/100 Mbit/s Ethernet

Port type and quantity 7x 10/100BASE-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity, 2 x 100BASE-FX, MM cable, SC sockets

Type SPIDER-PL-20-07T1M2M299TX9HHHH

Order No. 942141130

More Interfaces

Power supply/signaling contact 1 x plug-in terminal block, 6-pin contact

Network size - length of cable

Twisted pair (TP) 0 m ... 100 m

Multimode fiber (MM) 50/125 μ m 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 μ m 0 - 4000 m (Link Budget at 1300 nm = 0 - 11 db; A = 1 dB/km; BLP = 500 MHz*km)

Network size - cascability

Line - / star topology any

Power requirements

Operating voltage 12/24 V DC (9.6 - 32 V DC), redundant

Current consumption at 24 V DC Max. 280 mA

Power consumption Max. 6.9 W, 23.7 Btu (IT) h

Ambient conditions

Operating temperature -40 °C ... 70 °C

Storage/transport temperature -40 °C ... 85 °C

Relative humidity (non-condensing) 0 % ... 95 %

MTBF (Telcordia) 852.056 hours; Telcordia SR-332; Gb 25°C

Mechanical construction

Dimensions (W x H x D) 56 x 135 x 117 mm (w/o terminal block)

Mounting DIN Rail

Weight 510 g

Protection class IP40 (metal housing)

Mechanical stability

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

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

Configurable parameters

Configurable parameters	Global settings: power supply unit alarm, aging time, QoS 802.1p mapping, QoS DSCP mapping; Port settings: flow control, port admin state, broadcast storm protection/threshold, multicast storm protection/threshold, QoS Trust Mode, port based priority, link alarm; TX port settings: auto-negotiation, speed, duplex mode, auto-crossing, MDI state, energy efficient ethernet; FX port settings: duplex mode
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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), 1 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)

EMC emitted immunity

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

Service

Diagnostics	LEDs (power, link status, data, data rate)
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Approvals

Safety of industrial control equipment	UL61010-1/-2-201
Hazardous locations	ISA-12.12.-01 Class 1 Div. 2 Group

Scope of delivery and accessories

Scope of delivery	Device, terminal block, safety instruction
Accessories	Rail Power Supply RPS 30/80 EEC/120 EEC (CC), Wall mounting plate for DIN rail mounting 40mm - order nr. 942 177-001, wall mounting plate for DIN rail mounting 70mm - order nr. 942 177-002
