



SPIDER II Giga 5T/2S EEC

Industrial Networking:Industrial Ethernet:Rail Family:Unmanaged Rail-Switches

Delivery informations

Availability	available
Document created at	13.11.2008

Product description

Description	Entry Level Industrial ETHERNET Rail-Switch, store and forward switching mode, 10/100/1000 Mbit/s Ethernet (available from Jan. 2009)
Port type and quantity	5 x 10/100/1000BASE-T, 2 x GE-SFP Slots, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
Type	SPIDER II Giga 5T/2S EEC
Order No.	943 963-002

More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 3-pin, no signaling contact
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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 at 850 nm (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 at 1300 nm (with M-SFP-LX/LC)
Single mode fiber (LH)9/125 µm (long haul transceiver)	16 - 80 km, 6 - 22 dB link budget at 1550 nm (with M-SFP-LH/LC) 44 - 120 km, 15 - 32 dB link budget at 1550 nm (with M-SFP-LH+/LC)

Network size - cascading

Line - / star topology	Any
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Power requirements

Operating voltage	DC 9.6 V - 32 V
Current consumption at 24 V DC	max. 260 mA
Power consumption	max. 6.6 W 22.5 Btu(IT)/h

Service

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

Redundancy functions	n/a
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Ambient conditions

Operating temperature	-40 °C to +70 °C
Storage/transport temperature	-40 °C to +85 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	n/a

Mechanical construction

Dimensions (W x H x D)	35 mm x 138mm x 121 mm
Mounting	DIN Rail 35 mm
Weight	240 g
Protection class	IP 30

Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
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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)	6 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), 1 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz - 80 kHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Safety of industrial control equipment	cUL 508 (E175531) pending
EMV regulations for assembly in vehicles	n/a
Hazardous locations	n/a
Employment in vehicles	n/a
Safety of information technology equipment	n/a
Germanischer Lloyd	n/a
Scope of delivery and accessories	
Scope of delivery	Device, terminal block, operating manual
Accessories to order separately	Rail power pupply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame