



RT2-TX/FX

Industrial Networking:Industrial Ethernet:Rail Family:Rail Transceiver

Product description

Description	Industrial ETHERNET media converter, 100BASE-FX-Multimode and 100BASE-TX
Port type and quantity	1 x 100BASE-FX, MM cables, SC sockets, 1 x 100BASE-TX, TP cable, RJ45 socket
Type	RT2-TX/FX
Order No.	943 658-002

More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 5-pin
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Network size - length of cable

Twisted pair (TP)	0 - 100 m
Multimode fiber (MM) 50/125 µm	0 - 5000 m, 8 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 µm	0 - 4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km

Network size - cascability

Path delay value	84 BT (Class 2 Repeater)
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Power requirements

Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	max. 240 mA

Service

Diagnostics	LEDs (power, data, link status), signal contact (24 V DC / 1 A)
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Redundancy

Redundancy functions	redundant 24 V power supply
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Mechanical construction

Dimensions (W x H x D)	47 mm x 135 mm x 111 mm
Mounting	DIN Rail 35 mm
Weight	230 g
Protection class	IP 20

Ambient conditions

Operating temperature	0 °C to +60 °C
Storage/transport temperature	-25 °C to +75 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	137 years; MIL-HDBK 217F: Gb 25 °C

Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0.7g, 13.2 Hz - 100 Hz, 90 min.; 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, 1 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	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)
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)
Hazardous locations	cUL 1604 Class 1 Div 2 (E203960)
Safety of information technology equipment	cUL 60950 (E168643)
Germanischer Lloyd	Germanischer Lloyd (15662-00HH)
Scope of delivery and accessories	
Scope of delivery	device, terminal block, operating manual
Accessories to order separately	rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, 19" installation frame