



RR-EPL TX/MM SC

Industrial Networking:Industrial Ethernet:Powerlink Router:Chassis

Product description

Description	Gateway for Realtime Powerlink
Port type and quantity	Trusted port Powerlink: 1 x 10/100BASE-TX, TP cable, RJ45 socket, auto-crossing, auto-negotiation, auto-polarity Untrusted port: 1 x 100BASE-FX, MM cable, SC socket
Type	RR-EPL TX/MM SC
Order No.	943 011-022
Modi	Router, Single Client Transparent (SCT) und Multi Client, Transparent(MCT), PPPoE, PPTP SDO communication according to Powerlink specification controlled mode in Powerlink segment (slave)

More Interfaces

Power supply/signaling contact	1 plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket

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

Security

Stateful inspection firewall	Firewallrules (Incoming/Outgoing, modem-access, management) IP masquerading, 1-to-1 NAT, ARP limiter
------------------------------	---

Power requirements

Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	max. 350 mA

Service

Diagnostics	serial, HTTPS, SSH,SNMP V1/V2/V3, HiVision LEDs (power, link status, data, error, ACA) signal kontakt (24 V DC / 1 A), logfile
Configuration	Terminal-SW, DHCP, auto-configuration adapter (ACA11), HiDiscovery
Other services	DHCP server, DHCP client, DynDNS, Dial In access via V.24, NTP

Redundancy

Redundancy functions	redundant power supply
----------------------	------------------------

Ambient conditions

Operation temperature	0 °C to +55 °C
Storage/transport temperature	-40 °C to +80 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	26.5 years; MIL-HDBK 217F: Gb 25 °C

Mechanical construction

Dimensions (W x H x D)	47 mm x 131 mm x 111 mm
Mounting	DIN Rail 35 mm
Weight	340 g
Protection class	IP 20

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 - 2000 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 (linie/earth), 1 kV (linie/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 (pending)
Hazardous locations	cUL 1604 Class1 Div (pending)
Germanischer Lloyd	Germanischer Lloyd (pending)
Scope of delivery and accessories	
Scope of delivery	device, terminal block, operation instructions, CD-manual
Accessories to order separately	Rail power supply RPS 30, RPS 60 or RPS 120, terminal cable, Network management HiVision, modem cable, auto-configuration adapter (ACA 11), 19"-installation frame