



## EAGLE 20 MM/TX

Industrial Networking:Industrial Ethernet:EAGLE System:EAGLE 20

<b>Delivery informations</b>	
Availability	available
Document created at	22.05.2009
<b>Product description</b>	
Description	Industrial Firewall/VPN-Router
Modi	Router, Transparent (Bridging), Multipoint VPN (Router, PPPoE)
Port type and quantity	Trusted port: 1 x 100BASE-FX, MM-cable, SC-socket Untrusted port: 1 x 10/100BASE-TX, TP-cable, RJ45-socket, autocrossing, autonegotiation, autopolarity
Type	EAGLE 20 MM/TX
Order No.	943 987-004
<b>More Interfaces</b>	
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
V.24 interface	1 x RJ11 socket (serial interface for device configuration)
USB interface	1 x USB socket (to connect auto-configuration adapter ACA21-USB)
<b>Network size - length of cable</b>	
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
Single mode fiber (SM)9/125 µm	n/a
<b>Security</b>	
Stateful inspection firewall	firewall rules (incoming/outgoing, modem access, management), IP masquerading, 1-to-1 NAT, DoS limiter, MAC filter, user firewall for external activation of FW rules
Multipoint VPN	IPSec, IKEv2, DES, 3DES, AES (-128, -192, -256), Pre-Shared Key, X.509v3 certificates, MD5, SHA-1, NAT-T, Firewall rules for every VPN connection, configuration assistent in the Web-interface, remote enable/disable of connections.
<b>Power requirements</b>	
Operating voltage	DC 9.6 to 60 V, AC 18 to 30 V
Current consumption at 24 V DC	max. 8.1 W
<b>Service</b>	
Management	Command Line Interface (CLI), Web-Interface, Auto-configuration adapter (ACA21-USB), DHCP, HiDiscovery, Industrial HiVision
Diagnostics	LEDs (power, link status, data, error, ACA, V.24), signal contact (DC 24 V/ 1 A), logfile, syslog, configuration check
Protocols	serial, HTTPS, SSH,SNMP V1/V2/V3, LLDP
Other services	DHCP server/client, DHCP Relay/Option 82, DynDNS, firewall access via V.24 (PPP), SNTp, VLAN support (IEEE 802.3pQ), port forwarding
<b>Redundancy</b>	
Redundancy functions	use in redundant net-/ring coupling, firewall redundancy (Layer 4), redundnat 24 V power inputs
<b>Ambient conditions</b>	
Operating temperature	0 °C to +60 °C

Storage/transport temperature	-40 °C to +70 °C
Relative humidity (non-condensing)	10% to 95%
MTBF	26.5 years; MIL-HDBK 217F: Gb 25 °C
<b>Mechanical construction</b>	
Dimensions (W x H x D)	60 mm x 145 mm x 125 mm
Mounting	DIN Rail 35 mm
Weight	615 g
Protection class	IP 20
<b>Mechanical stability</b>	
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
<b>EMC interference immunity</b>	
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)
EN 61000-4-6 conducted immunity	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	
Safety of industrial control equipment	cUL 508 (pending)
Germanischer Lloyd	Germanischer Lloyd (pending)
<b>Scope of delivery and accessories</b>	
Scope of delivery	device, terminal block, operating instructions, CD-manual
Accessories to order separately	rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, network management Industrial HiVision, modem cable, auto-configuration adapter ACA21-USB, 19" installation frame