



## EAGLE mGuard VPN MM SC/LH SC

Industrial Networking:Industrial Ethernet:EAGLE System:EAGLE mGuard Firewall with VPN

### Product description

Description	Industrial Firewall/VPN-Bundle
Modi	Router, Single Client Transparent (SCT) and Multi Client Transparent(MCT), PPPoE, PPTP
Port type and quantity	Trusted Port: 1 x 10/100BASE-TX, TP-cable, RJ45-socket, autocrossing, autonegotiation, autopolarity Untrusted Port: 1 x 10/100BASE-TX, TP-cable, RJ45-socket, autocrossing, autonegotiation, autopolarity
Type	EAGLE mGuard VPN MM SC/LH SC
Order No.	943 011-308

### More Interfaces

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

### Network size - length of cable

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 bei 1300 nm, A = 1 dB/km, 3 dB Reserve, B = 500 MHz x km
Single mode fiber (LH)9/125 µm (long haul transceiver)	24 - 86.6 km, 7 - 29 dB link budget at 1550 nm A = 0.3 dB/km, 3 dB reserve, D = 19 ps/(nm x km)

### Security

Stateful inspection firewall	firewallrules (incoming/outgoing, modem access, management), IP masquerading, 1-to-1 NAT, ARP limiter, MAC filter
Multipoint VPN	IPSec, L2TP, DES, 3DES, AES (-128, -192, -256), Pre-Shared Key, X.509v3 certificates, MD5, SHA-1, NAT-T, Firewall rules for every VPN connection
Antivirus protection	optional: ClamAV-Anti-Virus-Engine (HTTP, FTP, POP3, SMTP)

### Power requirements

Operating voltage	9.6 to 60V DC, 18V to 32V AC
Current consumption at 24 V DC	max. 335 mA

### Service

Diagnosics	LEDs (power, link status, data, error, ACA) signaling contact (24 V DC / 1 A), logfile Command Line Interface (CLI), Web-Interface, auto-configuration adapter (ACA21-USB), DHCP, HiDiscovery, Industrial HiVision, SolSoft Policy Server (ISCM), Innominate DeviceManager
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), NTP, VLAN support (IEEE 802.3pQ), port forwarding

### Redundancy

Redundancy functions	use in redundant net-/ringcoupling, dual homing, router redundancy (VRRP), redundant 24 V power supply
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### Ambient conditions

Operating temperature	0 °C to +55 °C
Storage/transport temperature	-40 °C to +80 °C

Relative humidity (non-condensing)	10% to 95%
MTBF	27.4 years; MIL-HDBK 217F: Gb 25 °C
<b>Mechanical construction</b>	
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
<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), 1 kV data 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
Hazardous locations	cUL 1604 Class1 Div 2 pending
Germanischer Lloyd	Germanischer Lloyd
<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 or RPS 120 EEC, terminal cable, modem cable, HiVision network management, auto-configuration adapter (ACA 11), 19" installation frame