



## **Firewall Ethernet Industrial**

**EAGLE**

### EAGLE FW TX/MM SC

Industrial Firewall System

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 100BASE-FX, MM-cable, SC-socket

Type: EAGLE FW TX/MM SC

Order No.: 943 011-012

Power supply/signaling contact: 1 plug-in terminal block, 6-pin

V.24 interface: 1 x RJ11 socket

Twisted pair (TP): 0 - 100 m

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km

Stateful inspection firewall: firewallrules (incoming/outgoing, modem access, management),

IP masquerading, 1-to-1 NAT, ARP limiter, MAC filter

Antivirus protection: Kaspersky anti virus engine (HTTP, FTP, POP3, SMTP)

Operating voltage: 24 V DC (-25% to +30%)

Current consumption at 24 V DC: max. 350 mA

Diagnostics: LEDs (power, link status, data, error, ACA)

signaling contact (24 V DC / 1 A), Logfile

Configuration: Command Line Interface (CLI), web interface, auto configuration

adapter (ACA11), HiDiscovery, SolSoft policy server (ISCM)

Other services: DHCP server/client, DHCP Relay/Option 82, DynDNS, firewall

access via V.24 (PPP), NTP, VLAN support (IEEE 802.3pQ), port forwarding

Management: serial, HTTPS, SSH, SNMP V1/V2/V3, LLDP (HiVision/ Industrial HiVision)

Redundancy functions: use in redundant net-/ringcoupling, dual homing,

firewall redundancy (VRRP), redundant 24 V power supply

Operating temperature: 0 °C to +55 °C

Storage/transport temperature: -40 °C to +80 °C

Relative humidity (non-condensing): 10% to 95%

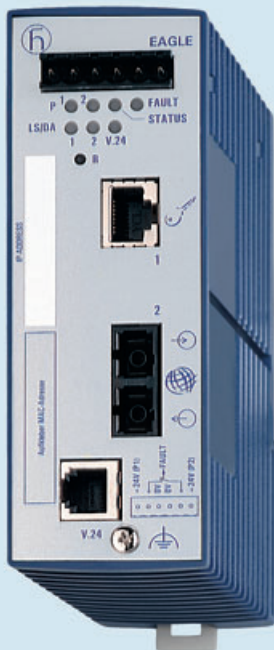
MTBF: 26.5 years; MIL-HDBK 217F: Gb 25 °C

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



### EAGLE FW TX/LH SC

Industrial Firewall System

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 100BASE-FX, SM-cable, 1550 nm, SC-socket

Type: EAGLE FW TX/LH SC

Order No.: 943 011-014

Twisted pair (TP): 0 - 100 m

Single mode fiber (LH) 9/125  $\mu\text{m}$  (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)





## EAGLE FW MM SC/TX

Industrial Firewall System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

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 FW MM SC/TX

Order No.: 943 011-015

Twisted pair (TP): 0 - 100 m

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km



## EAGLE FW MM SC/LH SC

Industrial Firewall System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, SM-cable, 1550 nm, SC-socket

Type: EAGLE FW MM SC/LH SC

Order No.: 943 011-018

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 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  $\mu\text{m}$ : 24 - 86,6 km, 7 - 29 dB link budget bei 1550 nm

A = 0,3 dB/km, 3 dB Reserve, D = 19 ps/(nm x km)

Single mode fiber (LH) 9/125  $\mu\text{m}$  (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)



## EAGLE FW TX/TX

Industrial Firewall System

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 FW TX/TX

Order No.: 943 011-011

Twisted pair (TP): 0 - 100 m



## EAGLE FW MM SC/SM SC

Industrial Firewall System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, SM-cable, SC-socket

Type: EAGLE FW MM SC/SM SC

Order No.: 943 011-017

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 32.5 km, 16 dB link budget at 1300 nm,

A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)



## EAGLE FW TX/SM SC

Industrial Firewall System

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 100BASE-FX, SM-cable, SC-socket

Type: EAGLE FW TX/SM SC

Order No.: 943 011-013

Twisted pair (TP): 0 - 100 m

Single mode fiber (SM) 9/125  $\mu\text{m}$ : 0 - 32.5 km, 16 dB link budget at 1300 nm,

A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)



## EAGLE FW MM SC/MM SC

Industrial Firewall System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Type: EAGLE FW MM SC/MM SC

Order No.: 943 011-016

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km

### EAGLE TX/MM SC

Industrial Firewall/VPN System

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 100BASE-FX, MM-cable, SC-socket

Type: EAGLE TX/MM SC

Order No.: 943 011-002

Power supply/signaling contact: 1 plug-in terminal block, 6-pin

V.24 interface: 1 x RJ11 socket

Twisted pair (TP): 0 - 100 m

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km

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 certificate, MD5, SHA-1, NAT-T, firewall rules

for every VPN connection

Antivirus protection: Kaspersky anti virus engine (HTTP, FTP, POP3, SMTP)

Operating voltage: 24 V DC (-25% to +30%)

Current consumption at 24 V DC: max. 350 mA

Diagnostics: LEDs (power, link status, data, error, ACA)

signaling contact (24 V DC / 1 A), logfile

Configuration: Command Line Interface (CLI), web interface, auto configuration adapter (ACA11), HiDiscovery, SolSoft policy server (ISCM)

Other services: DHCP server/client, DHCP Relay/Option 82, DynDNS, firewall

access via V.24 (PPP), NTP, VLAN support (IEEE 802.3pQ), port forwarding

Management: serial, HTTPS, SSH, SNMP V1/V2/V3, LLDP (HiVision/ Industrial HiVision)

Redundancy functions: use in redundant net-/ringcoupling, dual homing,

firewall redundancy (VRRP), redundant 24 V power supply

Operating temperature: 0 °C to +55 °C

Storage/transport temperature: -40 °C to +80 °C

Relative humidity (non-condensing): 10% to 95%

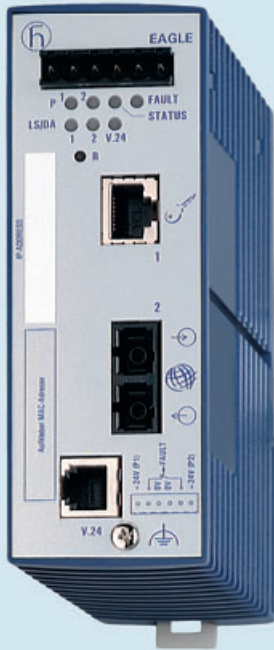
MTBF: 26.5 years; MIL-HDBK 217F: Gb 25 °C

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



### EAGLE MM SC/MM SC

Industrial Firewall/VPN System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Type: EAGLE MM SC/MM SC

Order No.: 943 011-006

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km





## EAGLE TX/SM SC

Industrial Firewall/VPN System

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 100BASE-FX, SM-cable, SC-socket

Type: EAGLE TX/SM SC

Order No.: 943 011-003

Twisted pair (TP): 0 - 100 m

Single mode fiber (SM) 9/125  $\mu\text{m}$ : 0 - 32.5 km, 16 dB link budget at 1300 nm,

A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)



## EAGLE MM SC/TX

Industrial Firewall/VPN System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

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 MM SC/TX

Order No.: 943 011-005

Twisted pair (TP): 0 - 100 m

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 4000 m, 11 dB link budget at 1300 nm,

A = 1 dB/km, 3 dB reserve, B = 500 MHz x km



## EAGLE MM SC/SM SC

Industrial Firewall/VPN System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, SM-cable, SC-socket

Type: EAGLE MM SC/SM SC

Order No.: 943 011-007

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 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  $\mu\text{m}$ : 0 - 32.5 km, 16 dB link budget at 1300 nm,

A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)



## EAGLE MM SC/LH SC

Industrial Firewall/VPN System

Modi: Router, Single Client Transparent (SCT) and Multi Client Transparent (MCT), PPPoE, PPTP

Port type and quantity: Trusted Port:

1 x 100BASE-FX, MM-cable, SC-socket

Untrusted Port:

1 x 100BASE-FX, SM-cable, 1550 nm, SC-socket

Type: EAGLE MM SC/LH SC

Order No.: 943 011-008

Multimode fiber (MM) 50/125  $\mu\text{m}$ : 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  $\mu\text{m}$ : 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 (LH) 9/125  $\mu\text{m}$  (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)



## EAGLE TX/TX

Industrial Firewall/VPN System

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 TX/TX

Order No.: 943 011-001

Twisted pair (TP): 0 - 100 m



## EAGLE TX/LH SC

Industrial Firewall/VPN System

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 100BASE-FX, SM-cable, 1550 nm, SC-socket

Type: EAGLE TX/LH SC

Order No.: 943 011-004

Twisted pair (TP): 0 - 100 m

Single mode fiber (LH) 9/125  $\mu\text{m}$  (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)

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