



**Product:** EAGLE30-0402206TT999ECCVTHSE3FXX.X

**Configurator:** EAGLE20/30 Industrial Firewalls

### Configurator Description

The advanced security functionality of the Hirschmann Security Operating System (HiSecOS), paired with these multiport industrial firewalls, creates a solution capable of securing and protecting an entire industrial network.

### Technical Specifications

#### Product description

Description	Industrial firewall and security router, DIN rail mounted, fanless design. Fast Ethernet, Gigabit Uplink type. 2 x SHDSL WAN ports
Port type and quantity	6 ports in total; Ethernet Ports: 2 x SFP slots (100/1000 Mbit/s); 4 x 10/100BASE TX / RJ45

#### More Interfaces

V.24 interface	1 x RJ11 socket
SD-card slot	1 x SD card slot to connect the auto configuration adapter ACA31
USB interface	1 x USB to connect auto-configuration adapter ACA22-USB
Digital Input	1 x plug-in terminal block, 2-pin
Power Supply	2 x plug-in terminal block, 2-pin
Signaling contact	1 x plug-in terminal block, 2-pin

#### Network size - length of cable

Twisted pair (TP)	0-100 m
Single mode fiber (SM) 9/125 µm	see SFP fiber module M-SFP-xx / M-Fast SFP-xx
Single mode fiber (LH) 9/125 µm (long haul transceiver)	see SFP fiber module M-SFP-xx / M-Fast SFP-xx
Multimode fiber (MM) 50/125 µm	see SFP fiber module M-SFP-xx / M-Fast SFP-xx
Multimode fiber (MM) 62.5/125 µm	see SFP fiber module M-SFP-xx / M-Fast SFP-xx

#### Network size - cascading

Line - / star topology	any
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#### Power requirements

Operating Voltage	2 x 24/36/48 VDC (18 -60VDC)
Power consumption	14 W
Power output in BTU (IT)/h	48

#### Security features

Multipoint VPN	IPSec VPN
Deep Packet Inspection	OPC, Modbus and DNP3
Stateful inspection firewall	Firewall rules (incoming/outgoing, management); DoS prevention

#### Software

Redundancy	VRRP (Virtual Router Redundancy Protocol); VRRP Tracking
Management	SNMPv3; SSH2/SFTP/SCP; HTTP; HTTPS; V.24 CLI; SNMPv1/2, Traps; local and central user management (RADIUS); HiDiscovery; Industrial HiVision; HiView; ; Dual Software Image Support; LLDP (802.1AB);
Diagnostics	LEDs (power, link status, data, status, ACA, RM); signal contact (DC 24 V / 1 A); logfile; syslog; configuration check; RMON (statistics); SFP diagnostics (temperature, optical transmit and receive power); trap for changes and configuration saves; Counter for ACL Rules Verbose syslog with traffic information

Configuration	Command Line Interface (CLI); web interface; Auto Configuration Adapter (ACA22, ACA31); HiDiscovery; Industrial HiVision; Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); CLI Scripting; Full-featured MIB Support;
Security	Layer 3 and Layer 2 Access Control Lists (ACL); ACL flow based limiting; Audit trail; HTTPS; SSHv2; SFTP; SNMPv3; Management VLAN; Role based Access Control; Remote Authentication via RADIUS; IEEE1686 compliant configuration possible; Ingress storm protection, Password change on first login
Time synchronisation	Buffered Real Time Clock, NTP Client, NTP Server
Miscellaneous	Support for WAN Interface SHDSL; Support for FE/GE Twisted Pair SFP; Wire speed port scan prevention; 8 QoS classes; port prioritization IEEE 802.1D/Q; VLAN IEEE 802.1Q, DHCP relay
Routing	VLAN and port based routing; static routing; multinetting; IP masquerading; 1-to-1 NAT; port forwarding; Static and Dynamic ARP entries; OSPFv2; Static Route Tracking

## Ambient conditions

Operating temperature	-40-+75 °C
Note	IEC 60068-2-2 Dry Heat Test +85°C 16 Hours
Storage/transport temperature	-40-+85 °C
Relative humidity (non-condensing)	10-95 %
Protective paint on PCB	Yes (conformal coating)

## Mechanical construction

Dimensions (WxHxD)	98 x 164 x 120mm
Weight	1500 g
Mounting	DIN Rail
Protection class	IP20

## Mechanical stability

IEC 60068-2-6 vibration	1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks

## EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD)	8 kV contact discharge, 15 kV air discharge
EN 61000-4-3 electromagnetic field	35 V/m (80 - 3000 MHz); 1kHz, 80% AM
EN 61000-4-4 fast transients (burst)	4 kV power line, 4 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line); data line: 1 kV; IEEE1613: power line 5kV (line/earth)
EN 61000-4-6 Conducted Immunity	10 V (150 kHz-80 MHz)
EN 61000-4-16 mains frequency voltage	30 V, 50 Hz continuous; 300 V, 50 Hz 1 s

## EMC emitted immunity

EN 55032	EN 55032 Class A
FCC CFR47 Part 15	FCC 47CFR Part 15, Class A

## Approvals

Basis Standard	CE; FCC; EN 61131; EN 60950
Safety of information technology equipment	cUL 508
Substation	IEC 61850-3; IEEE 1613
Railway norm	EN 50121-4

## Scope of delivery and accessories

Accessories	Rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, network management Industrial HiVision, auto-configuration adapter ACA22-USB EEC or ACA31, 19" installation frame
Scope of delivery	Device, terminal blocks, General safety instructions

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