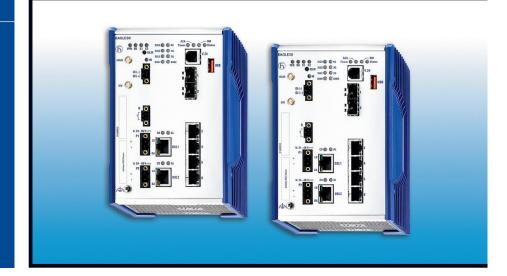


PB00044HE

EAGLE20/30 Industrial Firewalls with HiSecOS 3.0 Software

Multiport industrial firewalls, combined with Hirschmann's latest operating system, offer advanced security functionality and data inspection within a single device.



Together, the EAGLE20/30 firewalls with Hirschmann Security Operating System (HiSecOS) 3.0 software offer a solution capable of securing and protecting an entire industrial network via strengthened security features. Customers can select from many options to create a device which exactly matches their requirements.

- Modular and customizable with various configuration options, the multiport firewalls offer up to eight ports, including Fast Ethernet, Gigabit Ethernet, and Symmetrical High-speed Digital Subscriber Line (SHDSL).
- Networkwide security HiSecOS 3.0's new features, including Deep Packet Inspection (DPI), ensure the integrity of every packet passing through a network and protect the network from malicious intents.
- Easy to configure the Firewall Learning Mode (FLM) feature allows for one-click setup to create custom firewall rules for individual network needs.

The EAGLE20/30 firewalls with built-in HiSecOS 3.0 software are designed to eliminate the need for multiple routers. The result can be significant savings in both installation time and costs. The advanced cybersecurity features available in the latest release of HiSecOS ensure protection of complex industrial networks in order to increase network uptime.

Applications

The multiport industrial firewall has features designed for use in automobile and machine building environments, process automation settings, and transportation industries. The flexibility of the EAGLE20/30 devices allows for custom interface options, such as local area network (LAN), SHDSL, and coming in 2016, cellular LTE (4G)/3G interfaces.

The EAGLE20/30 firewall with HiSecOS 3.0 – and its robust design and hardened housings – is also able to operate in any industrial application, including water and wastewater, food and beverage, general manufacturing, and oil and gas.

Your Benefits

The primary advantage of the EAGLE20/30 firewall is the combination of HiSecOS 3.0's advanced security features and the flexibility of the firewall. Eight ports are available per device, including four Fast Ethernet, two Gigabit Ethernet and two SHDSL ports. Security features, including Deep Packet Inspection (DPI) and Firewall Learning Mode (FLM), ensure the highest level of security for your industrial network.

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The firewalls, combined with the latest Operating System HiSecOS 3.0, brings advanced industrial security functionality into a single networking solution.

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EAGLE20/30 Firewalls with HiSecOS 3.0

The Hirschmann EAGLE20-0400 and EAGLE30-0402 are multi-port firewalls in convection-cooled, metal DIN rail housings, which support eight total ports.

The multiport EAGLE firewalls are designed to fulfill the requirements of the IEEE 1686 standard, including functions, such as security audit trails and user management with password policies. To exceed these requirements and be prepared for future standards, several secure configuration interfaces are part of the router's functionality, as is a unique configuration encryption.

The new HiSecOS 3.0 gives customers a greater level of insight into network traffic. With the Firewall Learning Mode, the intentions of packets passing through the EAGLE20/30 industrial firewalls are evaluated, and based on the configured rules, safe packets are allowed to continue through while unwanted packets are discarded. Customized network rules can be created in no time using the advanced Graphical User Interface available with the device.

Benefits at a Glance

- Availability of multiple ports offers cost savings and flexibility
- DPI to ensure network packet integrity
- Easy firewall deployment and one-click rule setup
- Additional router redundancy protocols, including Virtual Router Redundancy Protocol (VRRP) to reduce downtime
- Support for SHDSL interfaces allows WAN connectivity using legacy telephone cables
- Enhanced security, including Ingress Protection and ACL-based counters and filters
- Simple intrusion detection
- Small form-factor pluggable (SFP) support for twisted-pair Gigabit cables
- Meets various standards and approvals
 - Substation: EN 61850-3, IEEE 1613
 - Safety: EN 60950-1, UL 60950-1, EN 61131-2 (Class 1 Equipment)
 - Traffic Controllers: NEMA TS 2
 - Railway: EN 50121-4
 - Radio Equipment: CE, FCC– Hazardous Locations: ISA-12.12.-01 Class 1 Div.
- Cellular LTE functionality (coming in 2016)



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Technical Information

| Product Description | | |
|---|--|--|
| Гуре | EAGLE20-0400 | EAGLE30-0402 |
| | Firewall rules (incoming/outgoing, management), IP masquerading, 1:1 Protection, Access Control Lists (ACLs) | NAT, Double-NAT, Masquerading NAT, Destination NAT, Hairpin NAT, DoS |
| Description | Industrial Firewall, Router, Transparent (Bridging) | |
| | 4 x 10/100BASE-TX, TP-cable, RJ45-socket, Autocrossing, Autonegotiation, Autopolarity | 4 x 10/100BASE-TX, TP-cable, RJ45-socket, Autocrossing, Autonegotiation, Autopolarity; 2 x FE/GE SFP slot, optional 2 x SHDSL |
| Drder-No. | see online configurator | see online configurator |
| nterfaces | | |
| /.24 Interface | 1 x RJ11 socket (serial interface for device configuration) | |
| JSB Interface | 1 x USB socket (to connect auto-configuration adapter ACA22-USB) | |
| SD Interface | 1 x SD socket (to connect auto-configuration adapter ACA31) | |
| Power Requirements | | |
| Power Supply/Signaling Contact | For CC Power Supply: 2 x plug-in terminal block 2-pin, for K9 Power Su | pply: 1 x plug-in terminal block 3-pin |
| Power Consumption | max. 19 W | |
| Operating Voltage | 2 x 24/36/48 V DC (18 to 60 V DC), or 1 x 60/110/125/220/250 V DC (48 V to 320 | V DC) and 110/120/220/230 V AC (88 to 265 V AC) or 2 x 48-320 V DC and 88-265 V |
| Software | | |
| Software Version | HiSecOS 03.0 | |
| Security | Firewall rules (incoming/outgoing, management), DoS prevention, IPSec VPN, Layer 3 and Layer 2 Access Control Lists (ACL), ACL flow based limiting, Audit trail, Management VLAN, Role based Access Control, IEEE 1686 compliant configuration possible, Ingress storm protection, Deep Packet Inspection (DPI) - OPC and Modbus, Firewall Leaning Mode (FLM), Authentication using LDAP | |
| | VLAN and port based routing, static routing, multinetting, IP masquera Tracking Framework for Static Routing | ding, 1-to-1 NAT, port forwarding, Static and Dynamic ARP entries, OSPFv |
| Multipoint VPN | IPSec, IKE v1/v2, 3DES, AES (-128, -192, -256), Pre-Shared Key (PSK) | , X.509v3 certificates, MD5, SHA-1, NAT-T, Hub-and-Spoke |
| Management | SNMPv3, SSH2/SFTP, HTTPS, V.24 CLI, SNMPv1/2, local and central U | Jser Management (RADIUS), HiDiscovery v2, Industrial HiVision, HiView |
| | LEDs (Power, Link Status, Data, Status, ACA, RM), Signal Contact (24 V DC/1 A), Log File, Syslog, Configuration check RMON (Statistic), SFP diagnostics (temperature, optical transmit and receive power), trap for changes and configuration saves, Counter for ACL Rules | |
| | Command Line Interface (CLI), web interface, Auto Configuration Adapter (ACA22, ACA31), HiDiscovery v2, local & central user management (RADIUS), Industrial HiVision, HiView | |
| Other Services | NTP, VLAN support (IEEE 802.1Q), rate limiter, QOS 8 classes, port price | ritisation IEEE 802.1D/p, VLAN IEEE 802.1Q |
| Redundancy Functions | VRRP (Virtual Router Redundancy Protocol), Tracking Framework for V | RP |
| Protocols | Serial, HTTPS, SSH, SNMP V1/V2/V3, LLDP | |
| Mechanical Stability | | |
| EC 60068-2-27 Shock | 15 g, 11 ms duration, 18 shocks | |
| EC 60068-2-6 Vibration | 1 mm, 2 Hz to 13.2 Hz; 0.7 g, 13.2 Hz to 100 Hz | |
| Construction | | |
| Weight | 1.2 to 1.9 kg | |
| Mounting | DIN Rail 35 mm | |
| Protection Class | IP20 | |
| | Temperature Standard (S): 90 x 164 x 120 mm (for WAN: 99); 108 x 16 Temperature Extended (T, E): 98 x 164 x 120 mm (for WAN: 99); 116 x | |
| Ambient Conditions | | |
| Dperating Temperature | -40 °C to +70 °C | |
| Relative Humidity (non-condensing) | 10% to 95% | |
| Storage/Transport Temperature | -40 °C to +85 °C | |
| Approvals | | |
| Germanischer Lloyd | Germanischer Lloyd | |
| Manufacturer Declaration of Conformity | CE, C-Tick, FCC | |
| Safety of Industrial Control Equipment | cUL 508 | |
| Hazardous Locations | cUL Approval according to ISA-12.1201 Class 1 Div. 2 Group A, B, C, I |) |
| Substation | EN 61850-3, IEEE 1613 | |
| Fraffic Controller | NEMA TS 2 | |
| Scope of Delivery and Accessories | | |
| | Device, terminal block, operating instructions, CD-manual | |
| | | |
| Scope of Delivery Accessories to Order Separately | | network management Industrial HiVision, Auto-configuration adapter (ACA |
| Scope of Delivery Accessories to Order Separately | Rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, r | network management Industrial HiVision, Auto-configuration adapter (ACA |
| Scope of Delivery Accessories to Order Separately Reliability | Rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, r | network management Industrial HiVision, Auto-configuration adapter (ACA |

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com

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Multi-port Industrial Firewall Configurations EAGLE20-0400 and EAGLE30-0402



| | EAGLE30-04 02 206 TT 9 99 T CC Z9 HS E 3F XX. | x x |
|---|--|-----|
| Design/Model EAGLE20 = Security Router EAGLE30 = Security Router | | |
| Fast Ethernet Ports | | |
| Gigabit Ethernet Ports 00 = 0 x 1000 Mbit/s 02 = 2 x 1000 Mbit/s | | |
| ype Uplink Ports 206 = All SFP slots 199 = Not available | | |
| Remaining Ports — TT = All Twisted Pair | | |
| Cellular Ports 9 = Not available | | |
| WAN Ports | | |
| Temperature Range 6 = 0 °C to + 60 °C 7 = -40 °C to +70 °C = -40 °C to +70 °C = -40 °C to +70 °C | nal Coating | |
| /oltage Range CC = 2 x 24/36/48 V DC (9) = 1 x 60/110/125/220/250 V DC an (K) = 2 x 48-320 V DC and 88-265 V A | 110/120/220/230 V AC | |
| Approvals Z9 = CE, FCC, EN 61131, (EN 60950) (9) = Z9 + cUL508 (8) = Z9 + cUL508 + ISA 12.12 J9 = Z9 + GL (ABS, BV, DNV, LR) JY = U9 + cUL508 JX = U9 + cUL508 + ISA 12.12 JT = U9 + cUL508 + ISA 12.12 JT = U9 + cUL508 + ISA 12.12 | T9 = Z9 + EN50121-4 TY = T9 + cUL508 V9 = Z9 + IEC61850-3, IEEE1613 VY = V9 + cUL508 VU = V9 + GL (ABS, BV, DNV, LR) VT = V9 + cUL508 + EN50121-4 | |
| DEM Type | | |
| | | |
| oftware Level F = Layer 3 Firewall Software AB = 3F + Modbus Enforcer | OP = 3F + OPC Classic Enforcer 01 = 3F + OPC Classic Enforcer + Modbus Enforcer | |

XX.X.XX = Current Software Release

02.0.00 = Software Release 2.0 03.0.00 = Software Release 3.0

03.0.00

NOTE: The part number categories (OEM Type, Configuration and Software Version) are optional.

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