

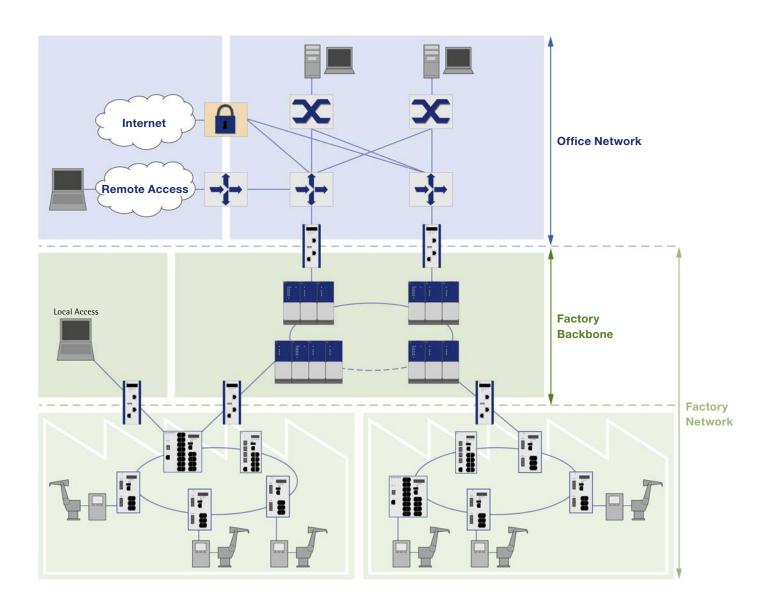
EAGLE20 Security Router



The new industrial security router – now with a new ruggedized housing and new EAGLE Software 4.3.



Tomorrow's distributed security solution: EAGLE20.



Times change, and so does your network equipment:

The new future-proof EAGLE20 generation from Hirschmann™ offers all the essential features of a security router including a new ruggedized metal housing and VxWorks-based EAGLE Software 4.3 in a choice of five versions. VPN functionality is built in right from the start.

The new EAGLE20 routers can be used to upgrade your security by splitting your company network into compartments. The EAGLE20 also acts as a

universal security module at the machine level where security requirements are becoming increasingly complex. The EAGLE20 protects sensitive areas of your production process and supports long-term integration of Office IT and Industrial IT networks in the company wide environment.

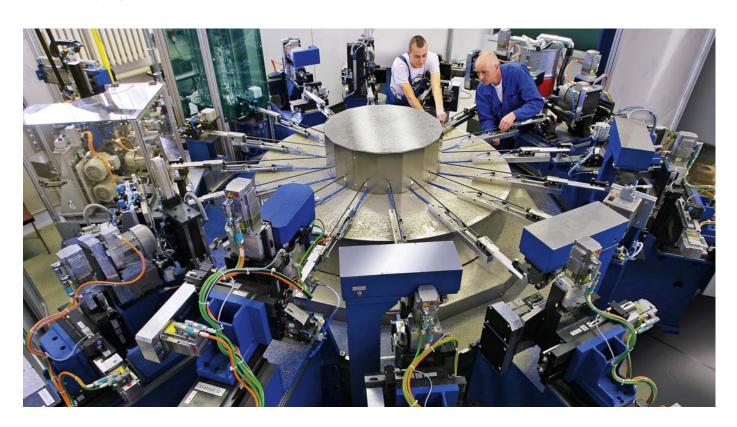


EAGLE20										
Product description	EAGLE20 TX/TX	EAGLE20 TX/MM	EAGLE20 TX/SM	EAGLE20 MM/TX	EAGLE20 MM/MM					
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Order No.	943 987-001	943 987-002	943 987-003	943 987-004	943 987-005					
Description	Industrial Firewall/VPN router									
Modi	Router, Multi Client Transparent (MCT), PPPoE									
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	Trusted port: 1x 10/100BASE-TX, TP cable, RJ45 socket, autocrossing, autonegotiation, autopolarity Untrusted port: 1x 100BASE-FX, MM cable, SC socket	Trusted port: 1x 10/100BASE-TX, TP cable, RJ45 socket, autocrossing, autonegotiation, autopolarity Untrusted port: 1x 100BASE-FX, SM cable, SC socket	Trusted port: 1x 100BASE-FX, MM cable, SC socket Untrusted port: 1x 10/100BASE-TX, TP cable, RJ45-socket, autocrossing, autonegotiation, autopolarity	Trusted port: 1x 100BASE-FX, MM cable, SC socket Untrusted port: 1x 100BASE-FX, MM cable, SC socket					
More interfaces	autonogotaaton, autopotatity									
Power supply/signal contact	1 x plug-in terminal block, 6-pin									
V.24 interface	1x RJ11 socket, serial interface for device configuration									
USB interface	1 x USB socket to connect auto configuration adapter ACA 21-USB									
Network size – length of cable										
Twisted Pair (TP)	0-100 m	0-100 m	0-100 m	0-100 m	_					
Multimode fiber (MM)	-	0-5000 m, 8 dB link	-	0-5000 m, 8 dB link	0-5000 m, 8 dB link					
50/125 µm		budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km		budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km	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	-	0 -4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km	0 -4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km					
Singlemode fiber (SM) 9/125 µm	_	_	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)	-	-					
Security										
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 rul									
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 assistant in the web interface, remote enable/disable of connections									
Power requirements										
Operating voltage	9.6 up to 60 VDC, 18 up to 30 VAC									
Power consumption	at 24 VDC max. 6.9 W	at 24 VDC max. 8.1 W	at 24 VDC max. 8.1 W	at 24 VDC max. 8.1 W	at 24 VDC max. 9.5 W					
Service	ı									
Management	Command Line Interface (CLI), web interface, auto configuration adapter (ACA 21-USB), DHCP, HiDiscovery, Industrial HiVision									
Diagnostics		LEDs (power, link status, data, error, ACA, V24), signal contact (24 VDC/1A), log file, syslog, configuration check								
Protocols	Serial, HTTPS, SSH, SNMP (v1/v2/v3), LLDP									
Other services	DHCP server/client, DHCP Rela	y/Option 82, DynDNS, firewall ac	cess via V.24 (PPP), SNTP, VLAN	support (IEEE 802.1Q), port forv	varding					
Redundancy										
Redundancy functions	Use in redundant network-/ring	coupling, firewall redundancy (L	ayer 4), redundant 24 V power in	puts						
Ambient conditions										
Operating temperature	-40°C up to +60°C									
Storage/transport temperature	-40°C up to +70°C									
Relative humidity	10% up to 95% (non-condensing)									
MTBF	27.4 years; MIL-HDBK 217F: Gb +25° C	26.6 years; MIL-HDBK 217F: Gb + 25° C	25.2 years; MIL-HDBK 217F: Gb + 25° C	26.5 years; MIL-HDBK 217F: Gb + 25° C	25.7 years; MIL-HDBK 217F Gb + 25° C					
Mechanical construction										
Dimensions (WxHxD)	60 mm x 145 mm x 125 mm									
Mounting	DIN rail 35 mm	DIN rail 35 mm								
Weight	600 g	615 g	615 g	615 g	630 g					
Protection class	IP20									



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Order No.	943 987-001	943 987-002	943 987-003	943 987-004	943 987-005			
Mechanical stability								
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks							
IEC 60068-2-6 vibration	1 mm, 2-13.2 Hz, 90 min.; 0.7 g, 13.2-100 Hz, 90 min.; 3.5 mm, 3-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9-150 Hz, 10 cycles, 1 octave/min.							
MC interference immunity								
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 (line/earth), 1 kV (line/line)							
EN 61000-4-6 conducted immunity	3 V (10 kHz – 150 kHz), 10 V (150 kHz – 80 MHz)							
EMC emitted immunity								
EMC emitted immunity	FCC CFR47 part 15 class A; EN 55022 class A							
Approvals								
Safety of industrial control equipment	cUL 508 (pending)							
German Lloyd	German Lloyd (pending)							
Scope of delivery and accessories								
Scope of delivery	Device, terminal block, operating instructions, CD-manual							
Accessories*	Rail power supply RPS 30, RPS 80 EEC, RPS 120 EEC, terminal cable, network management Industrial HiVision, modem cable, auto configuration adapter ACA 21-USB, 19" rack mount kit							

^{*}must be ordered separately



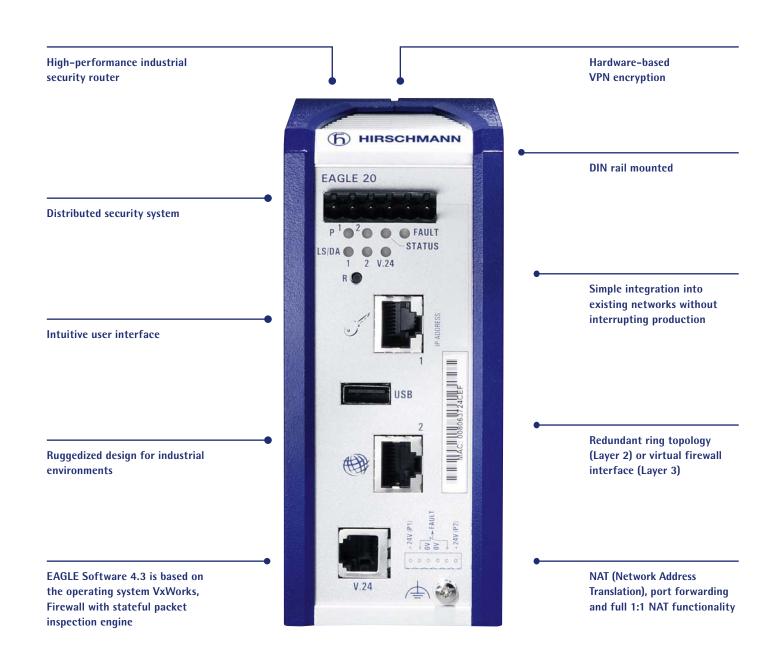


EAGLE20 – playing it safe in industrial environments.

EAGLE20 family routers are deployed as "industrial firewalls" at the machine and subsystem level. They offer unparalleled simplicity and reliability, providing local support for the full range of control applications, remote operation, simple links to adjacent processes and VPN connectivity between multiple machines. Five devices – one software solution.

Five versions - one Software

- EAGLE20 TX/TX
- EAGLE20 TX/MM
- EAGLE20 TX/SM
- EAGLE20 MM/TX
- EAGLE20 MM/MM





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