

EAGLEmGuard

Industrially-suited. Reliable. Robust. Security for industry

Industrially-suited

The *EAGLE mGuard* Industrial Security Router was developed in co-operation with Hirschmann Automation and Control GmbH, and convinces with the highest levels of security and performance for industry in a fan-less housing that can be mounted on a DIN rail.



Reliable

The *EAGLE mGuard* security appliance combines the reliable and high-performance Hirschmann EAGLE hardware platform with the reliable mGuard firmware. Based on a hardened embedded Linux from Innominate, this combination integrates four complementary security components: a bi-directional stateful inspection firewall, a flexible NAT router, a highly secure VPN gateway and, optionally, an industry-compatible protection from malware.

Robust

The industrial design of the *EAGLE mGuard* is not only evident in the mechanical strength of the shock- and vibration-resistant DIN rail housing: a signal contact and status displays can signal any potential disturbance of the *EAGLE mGuard*, and with the optional USB auto-configuration adapter it can be replaced quickly and easily. The *EAGLE mGuard* thus meets the high requirements of disturbance-free operation, even in harsh automation environments.

Security for production

The *EAGLE mGuard* is perfectly suited for the decentralized protection of production cells or individual machines against manipulations. A centralized, enterprisewide office firewall is typically not able to protect network production systems effectively against attacks from both inside and outside. Thus, production installations can only be reliably protected from sabotage and resulting production downtimes through decentralized end-point security.

Industry-standard remote maintenance

For secure remote maintenance scenarios, the *EAGLE mGuard* can be used as a VPN gateway and client for up to 250 parallel, IPsec-encrypted VPN tunnels. Equipped with the corresponding VPN licenses, the *EAGLE mGuard* functions as a teleservice infrastructure for the secure connection of machines, controls or technicians.

Reliability

With the optional modem controlling via the integrated serial interface, the *EAGLE mGuard* can use the existing switch lines as a fallback solution if there is a problem with the Internet access. Aside from the increased system stability, this also enables the future-proof migration from modem-based to Internet-based remote maintenance.

Hardware properties	EAGLE mGuard
Platform	Intel network processor with 533 MHz clock rate
Network interfaces	1 LAN port 1 WAN port Ethernet IEEE 802.3 10/100 Base TX RJ 45 Full Duplex Auto-MDIX optional 100 Base FX (F0)
Other interfaces	serial RS232, RJ11 socket USB
Drives	–
High availability	optional: VPN router & firewall
Power supply	24 V DC, max. 300 mA, PELV/SELV, redundant, –25 % - +25 % voltage range
Power consumption	max. 7.2 Watt at 24 V
Temperature range	0 - +60 °C (operation) –40 - +80 °C (storage)
Air humidity range	10 - 95 % (operation), non-condensing
Protection class	IP 20
Dimensions (H x W x D)	131 x 47 x 111 mm
Weight	340 g

Firmware and performance values	EAGLE mGuard
Firmware compatibility	mGuard v5.0 or higher; Innominate recommends to always use current firmware versions and patch releases; for scope of functions see relevant firmware datasheet
Data throughput (router firewall)	99 Mbit/s bi-directional 99 Mbit/s bi-directional
Hardware-based encryption	DES 3DES AES-128/192/256
Encrypted VPN throughput (AES-256)	70 Mbit/s bi-directional
Management support	Web GUI (HTTPS) Command Line Interface (SSH) SNMP v1/2/3 central device management software
Diagnostic	LEDs (P1, P2, Status, Fault, LAN, WAN, V.24) signal contact (24 V, 1 A) log file remote syslog

Other	EAGLE mGuard
Conformity	CE FCC UL 508 GL

Please note the safety instructions in the product documentation supplied (Quick Installation Guide).

Available models and order numbers:	
EAGLE mGuard	HW-201000
EAGLE mGuard VPN	BD-301010

The Benefits

Security: Don't give attackers a chance!

The highly-effective security components of the mGuard security appliance provide your systems, machines and communication channels with the highest level of protection against attacks, so that you can sleep at night.

Plug-n-Protect: Avoid long-winded coordination!

The self-sufficient mGuard security appliance, with its patented mGuard stealth mode, can be integrated quickly and without repercussions. In the process, the behavior of the mGuard is completely transparent, and it uses the IP address of the system it is protecting. Thus the mGuard cannot be detected by an attacker, and therefore cannot be compromised.

Speed: Increase your security without impairing the response times! The extremely high throughput rates of the mGuard enable you to have fast and at the same time safe IP communication with all machines and systems.

Load reduction: Protect your computers! The mGuard cifs integrity monitoring is an industry-compatible alternative to traditional anti-virus solutions that reliably detects malware. Without the risk of downtime due to false alarms, and with a considerable load reduction for the systems being protected.

Up-to-dateness: Don't get left behind! You can meet new security and market requirements quickly and easily with the aid of regular upgrades to the mGuard firmware.

Time saving: Increase your efficiency level! The optionally available device manager makes it easy for you to centrally manage and perform a templatebased roll-out of all your mGuard devices.

About Innominate Security Technologies AG

Innominate, a Phoenix Contact Company, is a leading supplier of components and solutions for controlled and secured communication in industrial networks. The German company specializes in the protection of networked industrial systems and the secure remote diagnosis and maintenance of machinery and equipment over the Internet. Its mGuard product line of network security appliances provides router, firewall, virtual private network (VPN), as well as quality of service (QoS) functionalities and helps with intrusion detection and antivirus protection. The mGuard portfolio is complemented by a highly scalable device management software. Innominate products are marketed worldwide under the mGuard brand through system integrators and OEM partners.

Further information can be found at: www.innominate.com.

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