

datasheet

mGuard *industrial rs*

Industrial-suited. Reliable. Robust. Tough for sure

Industrial-suited

The *mGuard industrial rs* industrial security router from Innominate impresses with maximum security and performance in a compact housing that can be mounted on a DIN rail for industrial use.



Reliable

The *mGuard industrial rs* security appliance combines the powerful mGuard 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 alignment of the *mGuard industrial rs* is not only evident in the strength of the shock and vibration-resistant DIN rail housing: the stable screw connections and the redundant power supply also make a difference.

An integrated signal contact and LED status displays enable any disturbances to be quickly detected and resolved. The fan-less *mGuard industrial rs* thus meets the high requirements of disturbance-free operation, even in harsh automation environments.

Security for production

The *mGuard industrial rs* is perfectly suited for the decentralized protection of production cells or individual machines against manipulations. A centralized, enterprise-wide 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 software-independent remote maintenance scenarios, the *mGuard industrial rs* can be used as a VPN gateway for IPsec-encrypted VPN tunnels. Equipped with the respective VPN licenses, it functions as a remote access infrastructure for the secure connection of machinery and equipment. As a security add-on, VPN tunnels can be switched on and off by the machine or its operator via software or hardware interfaces. This makes *mGuard industrial rs* a perfectly compatible companion to central VPN gateway products such as the *mGuard centerport*, *mGuard bladepack*, or *mGuard delta²* and to Innominate's cloud-based infrastructure solution, the *mGuard Remote Services Portal* (available in selected countries).

Reliability

With the optional modem or ISDN-TA integration, the *mGuard industrial rs* can use the existing switch lines as a fallback solution if there is a problem with the Internet access. Aside from the increased reliability, this also enables the future-proof migration from modem-based to Internet-based remote maintenance.

Hardware properties	mGuard industrial rs
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
Other interfaces	serial RS232, RJ11 socket optional analog modem optional ISDN-TA
Drives	–
High availability	optional: VPN router & firewall
Power supply	24 V DC, 170 mA, SELV, redundant, 9-36 V voltage range
Power consumption	typically 4.1 W
Temperature range	0 - +55 °C (operation) –20 - +70 °C (storage)
Air humidity range	10-95 % (operation and storage), non-condensing
Protection class	IP 20
Dimensions (H x W x D)	100 x 45 x 112 mm
Weight	250 g

Firmware and performance values	mGuard industrial rs
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 optional key switch (VPN)
Diagnostic	LEDs (P1, P2, Modem, Fault, State, Error, LAN, WAN) signal contact (SELV) service contacts (+, CMD, ACK) log file remote syslog

Other	mGuard industrial rs
Conformity	CE FCC UL 508

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

Available models and order numbers:	
mGuard industrial rs	HW-105000
mGuard industrial rs analog	HW-105010
mGuard industrial rs ISDN	HW-105020
mGuard industrial rs VPN	BD-501000
mGuard industrial rs VPN analog	BD-501010
mGuard industrial rs VPN ISDN	BD-501020

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.

Innominate® and mGuard® are registered trademarks of Innominate Security Technologies AG. For specific technologies used in mGuard® products, patents have been issued to Innominate Security Technologies AG, or have been applied for by them. All other trademarks, brands and names are the property of their respective owners. Further information available under www.innominate.com/trademarks. Changes to product specifications, typing errors and other errors reserved. Version: January 2012.