

datasheet

mGuard *smart²*

Mini. Powerful. Smart. Portable security at its best

Mini

The *mGuard smart²* from Innominate impresses with maximum security and performance in the smallest space. It has never been so easy to reliably protect computers, machines or any other IP connections critical to a company's operations from attack.



Powerful

The *mGuard smart²* security appliance combines the extremely powerful new mGuard hardware platform with the reliable *mGuard firmware*. Based on a hardened embedded Linux from Innominate, this combination integrates four complementary security components: a bidirectional Stateful Firewall, a flexible NAT Router, a high-security VPN Gateway and, optionally, industry-compatible protection against malware.

Smart

With its sturdy housing and the uncomplicated power supply via any USB port, the *mGuard smart²* is perfectly suited to the portable protection of resources critical to a company. Thus changes to the location and the infrastructure can be performed quickly and at low cost.

End point security

The *mGuard smart²* is supremely suitable for portable and stationary protection of workplaces and environments close to production with low requirements for industrial hardening. Perfectly positioned as an intelligent firewall between office and production networks, as a secure remote maintenance client, or as a security router for small workgroups.

Secure remote maintenance

For software-independent remote maintenance scenarios, the *mGuard smart²* can be used as a portable VPN client and as a temporary VPN connection for secure machine remote maintenance via IPsec-encrypted VPN tunnels. Ideal in particular in medium-sized machine and plant engineering operations, as an economical tele-service infrastructure for connecting machines, controls or mobile technicians.

Medical applications

The *mGuard smart²* is a suitable VPN router for the secure connection to healthcare networks and online services such as the KV SafeNet in Germany, and also for other medical application scenarios. Additionally, the *mGuard smart²* supports the secure access to PCs in doctor's practices from home and on the road using a USB stick with pre-configured software and any PC with Internet access.

Secure satellite communication

To enable secure and – despite long latencies – high-performance satellite communication, various OEMs provide a modified version of the *mGuard smart²* with an integrated 3rd-party Performance Enhancing Proxy (PEP). Here the *mGuard smart²* PEP communicates completely transparently via the satellite route with a terrestrial 3rd-party PEP server infrastructure, thus enabling a TCP acceleration of satellite-based Internet services.

Hardware properties	mGuard smart ²
Platform	Freescape network processor with 330 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 via USB interface
Drives	–
High availability	depends on the firmware used
Power supply	via USB interface (5 V at 500mA) optional: external power supply unit (110 - 230 V)
Power consumption	max. 2,5 Watt
Temperature range	0 - +40 °C (operation) –20 - +70 °C (storage)
Air humidity range	20 - 90 % during operation, non-condensing
Protection class	IP 30
Dimensions (H x W x D)	27 x 77 x 115 mm
Weight	131 g

Firmware and performance values	mGuard smart ²
Firmware compatibility	mGuard v7.2 or higher; Innominate recommends the current firmware versions and patch releases; for scope of functions, see relevant firmware datasheet
Data throughput (router firewall)	99 Mbit/s bi-directional
Hardware-based encryption	DES 3DES AES-128/192/256
Encrypted VPN throughput (AES-256)	35 Mbit/s bi-directional
Management support	Web GUI (HTTPS) Command Line Interface (SSH) SNMP v1 /2 /3 central device management software
Diagnostics	LEDs (3 LEDs in combination for boot process, heartbeat, system errors, Ethernet status, recovery mode) log file remote syslog

Other	mGuard smart ²
Conformity	CE FCC
Specifics	Real time clock Trusted Platform Module (TPM) temperature sensor

Please note the safety instructions in the product documentation supplied (package slip).

Available models and order numbers:	
mGuard smart ²	HW-101130
mGuard smart ² VPN	BD-101030

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 all *mGuard* devices and perform the template-based roll-out for them.

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: November 2010.