

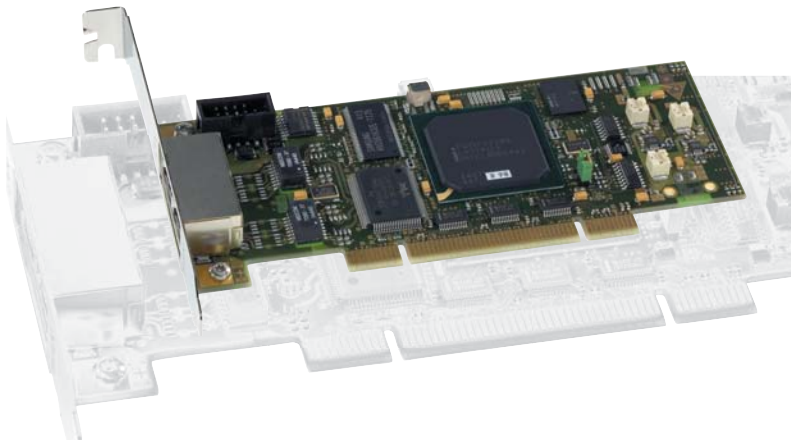
# datasheet

## **mGuard** *pci*

### **Flexible. Powerful. Universal.** **Integrated with security**

#### **Flexible**

The *mGuard pci* from Innominate impresses with maximum security and performance in a compact, PCI-compatible plug-in card. This design factor enables the *mGuard pci* to be flexibly integrated into every device or machine with a PCI bus.



#### **Powerful**

The *mGuard pci* 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.

#### **Universal**

The *mGuard pci* can equip any PCI-compatible hardware with a high-performance security component. By using high-quality components and a reliable structure, the *mGuard pci* also completely fulfills the high requirements for trouble-free operation in harsh, industrial environments.

#### **Security for production**

The *mGuard pci* is perfectly suited for the decentralized protection of industrial and panel PCs, individual machines or industrial robots 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 pci* can be used as a VPN gateway and client for IPsec-encrypted VPN tunnels. Equipped with the respective VPN licenses, the *mGuard pci* functions as a remote access infrastructure for the secure connection of machines, controls or technicians.

#### **Integrated router and firewall**

For the integration of *mGuard pci*, the PCI bus of the host system can either be used non-reactively and exclusively for the power supply of the mGuard, or the *mGuard pci* is used instead of a network card, so that the host system can also use this as a NAT router and stateful inspection firewall with the corresponding interface functions.

Hardware properties	mGuard pci /266   mGuard pci /533
Platform	Intel network processor optionally with 266 or 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, internal cable connector
Drives	–
High availability	optional: VPN   router & firewall
Power supply	3.3 V or 5 V, via PCI bus
Power consumption	typically 3.7 - 4.2 W
Temperature range	0 - +70 °C (operation) –20 - +70 °C (storage)
Air humidity range	20-90 % (operation), non-condensing
Protection class	depends on installation type
Dimensions (H x W x D)	Low profile PCI
Weight	72 g

Firmware and performance values	mGuard pci /266   mGuard pci /533
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)	35 Mbit/s (pci/256) bi-directional   70 Mbit/s (pci/533)
Management support	bi-directional Web GUI (HTTPS)   Command Line Interface (SSH)   SNMP v1 / 2 / 3   central device management software
Diagnostic	LEDs (2 x LAN, 2 x WAN in combination for boot process, system errors, Ethernet status, recovery mode)   log file   remote syslog

Other	mGuard pci /266   mGuard pci /533
Conformity	CE   FCC   UL 508   Operating modes with/without driver via PoPCI

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

Available models and order numbers:	
mGuard pci /533	HW-102050
mGuard pci /266	HW-102020
mGuard pci /533 VPN	BD-111020
mGuard pci /266 VPN	BD-111010

## 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](http://www.innominate.com).

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