



ZoneKeeper

IT is safe



HardGuard.net

ZoneKeeper secures vital data from Internet-based threats using a simple and impenetrable hardware-based solution, in a way that no software solution ever could.

The Advantages

- Total isolation from outside threats
- Total safety to access any information
- Total convenience - all on a single computer
- Priceless protection, yet affordable for all

The Need

The threats to your vital, proprietary data are increasing daily. A new vocabulary has evolved to describe these threats, such as viruses, Trojan horses, worms, and so on. The software industry has developed antivirus software, firewalls, spyware blasters and countless new products to secure your data. Yet hackers have proved time and again that any software-based solution can be breached. The proliferation of wireless networks has introduced even greater challenges.

We see that while threats are increasing, so are the demands for security. Banks have been at the forefront of the battle for greater data security. The financial services industry has found that only hardware can provide a failsafe security solution.

Organizations with high data security exposure typically isolate network activity on a physically separate machine from their vital data. This is a costly and inconvenient solution that not only requires duplication of computer resources, but also severely hinders productivity.

Few can afford or will take the trouble to purchase and maintain additional workstations to provide physically isolated safe zones. How can this kind of protection be provided without huge outlays for additional, secured workstations?

"Even the army is not immune to the Trojan horse."

Brigadier General, Arnon Zuretz, Chief of Staff C4I Branch and Chief C4I Officer, Israeli Defense Forces

"Security's weakest link is the human factor."

Dan Israel of Check Point Software Technologies

"Employees that must connect to the internet, will do so from a computer that is not part of the network."

Supervisor of Capital Markets, Insurance, and Savings, Eyal Ben Shlush

The ZoneKeeper Solution

ZoneKeeper is a multipurpose network/data switch that physically and electrically isolates your data into two separate zones on the one workstation, as follows:

- **Safe Zone:**

This physically isolated Safe Zone is created on one's standard computer's hard drive. It remains isolated and protects from all external infections or harms of any sorts. This provides a location for vital and proprietary data.

- **Internet/Open Zone:**

Users can safely browse the web with the knowledge that their safe zone will not be seen or penetrated, even from memory resident viruses. The Internet/Open Zone enables you to browse the web, interact through an intranet or internet and feel free of any external entities. Even if infected, such infection cannot traverse the physical and electric separation to the Safe Zone, furthermore the memory of the Internet/Open Zone is completely erased each time, before you switch to the Safe Zone.

The ZoneKeeper device is a physical device that allows you to switch between the Safe Zone and the Internet/Open Zone in the same way that you log in to a separate computer. The ZoneKeeper physically denies power and data to the devices and network connections that can fall prey to those who would steal your vital information. Since it has no software components, it cannot be corrupted.

ZoneKeeper installs without the use of drivers or any other software component, and can be implemented on any operating system. ZoneKeeper can protect against future threats with no need for software update.

ZoneKeeper is completely compatible with existing hardware and software. Antivirus and Firewall products can continue to be used to secure your Internet/Open Zone.

Clear indications (display and LED) are provided to indicate the zone (Safe Zone or Internet/Open Zone) is operating. ZoneKeeper's inherent design makes it impossible to have both zones open at the same time.

ZoneKeeper is as easy to install as a CD ROM drive and does not require software or hardware configuration modification. Installation takes just a few minutes without any technical skills.

The ZoneKeeper Device

The ZoneKeeper device serves as a physical gateway between the motherboard and physical devices connected to it. A completely different set of storage devices is connected for the Safe Zone and the Internet/Open Zone. When the Safe Zone is selected, power and data are only provided to Safe Zone devices, and denied to the other zone and associated devices. When the Internet/Open Zone is selected, power and data are provided only to Internet/Open Zone and its devices.

ZoneKeeper has an LCD display to indicate the current active zone, an LED for the same purpose and an On-off switch to switch between zones.

A technical sketch of a vehicle chassis, showing wheels, suspension, and a network of cables. Overlaid on this sketch is a diagram illustrating network zones and a central relay. A green box labeled 'LOCAL NETWORK' is connected by a green line to a green box labeled 'SAFE ZONE'. A red box labeled 'INTERNET ROUTER' is connected by a red line to a red box labeled 'INTERNET ZONE'. Both the 'SAFE ZONE' and 'INTERNET ZONE' boxes are connected by blue lines to a central light blue circle labeled 'Physical Electrical Switch RELAY'. This relay is further connected by a blue line to a grey box labeled 'ZoneKeeper', which contains a red dot, a green bar, and another green box.

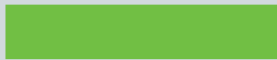
**LOCAL
NETWORK**

**INTERNET
ROUTER**

SAFE ZONE

INTERNET ZONE

Physical Electrical Switch
RELAY



ZoneKeeper

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HardGuard.



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Using ZoneKeeper

Using ZoneKeeper is extremely simple:

To boot the Internet/Open Zone:

- Set the ZoneKeeper switch to Open.
- Power up the computer. The ZoneKeeper LED displays red, indicating the Internet/Open Zone, and the LCD displays the word Open. You can freely access email, browse the Internet and so on.

To switch to the Safe Zone:

- Set the ZoneKeeper switch to Safe and reboot. The ZoneKeeper connects to the Safe Zone devices. The reboot clears the memory, eliminating the possibility of memory-resident viruses migrating from the Internet/Open Zone to the Safe Zone.

Minimum System Requirements

PC Intel / AMD or PC Compatible

32 MB RAM

Any PC operation system include windows 3.0, 95 and above or Linux

1 or 2 HD IDE (if HD IDE CDROM DRIVE is required) - depend on version
1HD+1CD or 1HD+1HD or 1CD+1CD or 1HD+1HD+1CD - depend on version

2 Ethernet cards - depend on version

1 Ethernet cards - depend on version

1 Ethernet and 1 802.11a/b/g USB based card

1 Ethernet and any wireless USB based card

180 Watt POWER SUPPLY ATX and above

Zonekeeper supply in 3 Version :

Version A: 2 Physical networks consist of, 1 Wireless USB external device, 1 Ethernet Cable (CAT 5) connected to Ethernet card.

Version B: 2 Physical networks consist of, 2 Ethernet cables (CAT 5) connected to 1 Ethernet card.

Version C: 2 Physical networks consist of, 2 Ethernet cables (CAT 5) connected to 2 Ethernet Cards.

* may depend in some cases on supportive hardware

About HardGuard

HardGuard's team of researchers and scientists located in Haifa, Israel, and San Francisco, California have first completely secure solution to isolate computers from viruses and Trojan code.

Patent No. 6,957,286.



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