

With ever increasing cyber threats, why should your critical business rely on today's **UNSECURED** Web Server?!

Overview of 3Gweb Self-Defending Web Server

What is 3Gweb®

3Gweb® Self-Defending Web server is a Next-Generation Web Server. With the patented technology, BitShield has developed the 3Gweb Self-Defending Web Server series, unique appliance boxes that can be easily implemented into most existing web infrastructure. Through a utmost-secured web platform, 3GWeb provides the ultimate-trustworthy pathway with exceptional data availability to all legitimate users for various businesses, such as government, financial services, higher education, entertainment, news, e-commerce...etc. 3Gweb® offers HTTP server functions with cutting-edge Computer Bio-Security Technology that includes **Immunity, Self-Healing, Digital Skin and Nerve monitoring**. 3Gweb is able to protect itself and contents from hacker's intrusion and various Web attacks, both Known and Unknown.

In 2005, 3Gweb® Self-Defending Web Server was honored with "The Best of Interop Awards" at the Network+Interop, one of the world's largest IT Conference and Exposition. 3Gweb® was recommended as "the most innovative solution in the Network Software and Services category." by the head of the judging team, recognized by top experts in IT industry. 3Gweb's USA patent has been issued in end of 2007.

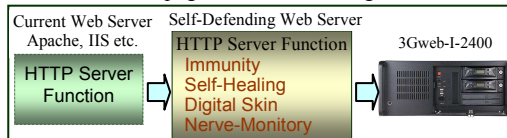


Why do you need 3Gweb®?

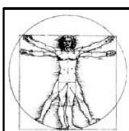
- (1) Innumerable cyber crimes have proven that the current solution of "Perimeter Security Product + Web" never provide a secured and trust Web infrastructure. The recent soaring numbers of Web site infected with malicious code, a new infected Web appeared once 5 second now, proved this fact again.
- (2) Innate Vulnerabilities and Vital Flaws exist in the conventional Web servers. Current generation of web servers, such as Apache, IIS etc, do not have the Anti-Attack capability, and the Web contents on Web server are plaintext, no inspection, no protection, directly exposed to Internet etc. These vulnerabilities and flaws are attracting hackers to attacking a Web site. Exploiting these vulnerabilities, hackers can infect Web pages and spread malicious cord, can do defacement, hijack site, intrusion of DB and internal LAN, disable a site etc. Hackers have well known how to exploit these vulnerabilities to profit money and other benefits. The conventional web servers were ranked as the **largest Internet vulnerability** by SANS Institute USA.
- (3) Cyber attacks are ever more frequent, sophisticated, systematism and unpredictable, current security solutions have been not enough. 83% of the Internet traffic is malicious, as reported by Sun Microsystems Inc. in spring 2006. **125 to 175** new malicious software codes pop up every day, said by Cyber Security Industry Alliance USA, Dec. 2007. The tremendous growth rate of cyber attack methodologies seem to stay well ahead of today's security solutions. SQL injection, DDoS, XSS, defacement, Buffer-overflow, CodRed... No one can predict when, how, what kind and to whom of a cyber-attack will come next. The current perimeter security solutions such as Firewall, Anti-Viruses, IDS/IPS and other perimeter security products can't stop 100% attacks. At the very least "**Unknown Attacks**" that carry no "attack signature" cannot be blocked by current security solutions. "Walled-Fortress' security is medieval, everyone, from Symantec Chairman John Thompson to Microsoft's Bill Gates, derided the idea of an information vault that's protected through perimeter defense and demilitarized zones", a comment made by editorial director of CMP Media, at RSA conference in 2007.
- (4) Save total cost of Web operation and improve the management of your site. With 3GWeb is not just for Web security, but also can save the total operating cost of their Website and shorten the time spent on system integration because it is all-in-one appliance, as well as it can improve the Web management and lessen maintenance requirements.

What is the innovation?

3Gweb® Self-Defending Web server will always respond with validated, trustworthy information to legitimate requests. No more webpage defacement, illegal alteration, or malicious code. Even if it is intruded by attackers, 3Gweb® Web Server appliance can still safeguard itself and all its contents, and to avoid any intrusion into its back-end database. 3GWeb enables you to protect your business information, customer data and company reputation against various Web attacks, offering desired visitors an extremely reliable web platform with high availability, all the time.



About Our Self-Defense Technology



Human body possess a Self-Defense system against infections, diseases, and other invasions from sources such as viruses and germs, leading to their long lifespan in the natural world. This system includes "Immunity", "Self-Healing", "Skin" and "Nerve System". Under our pioneering research in the Computer Bio-Security area, Bit-Shield has successfully implemented this bio-system into the computer system firs in the world, as our 3Gweb® Self-Defending Next Generation Web Server Technology.

KEY FEATURES

- **High Trust & Ultra-Secure Web Infrastructure**
 - High Trust: Always send clean and trusted Web pages to your visitors. Safeguard your brand investment, organization's reputation, Web presence as well as your critical business.
 - No more webpage defacement, illegal alteration, or HTTP viruses/malicious code.
- **Powerful HTTP Server Functions**
 - High speed, high performance as well as high reliability
 - With Apache - URL, HTTP, HTML, CGI
 - Static Pages, Dynamic Script
 - Virtual Host; DSO and SSI; SSL and SSH
 - Pre-installation: MySQL, PHP, Perl, etc.
- **Save total costs and improve the management of Web**
 - Instant Web server setup. All-in-one appliance with needed software and high-efficiency hardware.
 - Reduced total operating cost, from web management, staffing, prevented downtime and disaster recovery;
 - Auto management, round-the-clock Self-Monitoring and auto alarm to mobile phone/e-mail.
 - Offers Web based control panel and various Log files.
 - Support multi-tire websites and application servers (IBM WebSphere etc.) as well as SOA etc.
 - Compatible with most security products available on market.
 - Enable to safeguard MS-IIS.
- **Cutting-edge Self-Defense & Anti-attacks**
 - Resist various Known Web attacks such as Buffer Overflow, DDoS, SQL Injection, etc
 - Resist various Unknown attacks such as future attacks, unpublished hacker attack technologies, Zero Day attack...!
 - Prevent hijacked by hacker to spreading malicious code.
 - Anti-defacement: The exposed time of defacement is **0** seconds – first in the world! Site visitors will never see a defacement or illegal alteration – at any time.
 - Self-Healing: Rapid recovery if detected defacement or deleting of the Web contents. Non-interrupt active website.
 - Immunity System: Web contents, both static files and dynamic scripts will be protected with authentication and encryption, which cannot be infected or modified by any HTTP viruses, worms – whether known or unknown!
 - Anti data theft & Anti information Divulging: Prevent loss of sensitive Web contents even in the event of intrusion. Safeguard administrative information from illegal accessing of database, such as user name, password, IP addresses etc.
 - Physically independent hardware platform: User accessed web content zone and administrator managed original content zone are on two separate hardware nodes.
 - Isolates original Web contents and DB from internet intruders.
 - Multi build-in Gigabit Firewalls: Prevent network layer attacks.
 - Advanced URL Defense System: Filtering both http and https protocol! Auto block attacker's IP once the attack detected. Prevent application -layer attacks.
 - Get alarm by mobile phone at once if being defaced or attacked.
 - Resist both the network layer and the application layer attacks
- **Advanced high performance, high density computer tech**
 - Dual nodes built within single 1U height rack mountable chassis
 - Dual Intel Quad-Core Xeon CPUs per node and Hot-swap HDD.