Protection against EMP
Ensuring IT security in a new era of threats
Protection in the digital era

Companies today face rapidly multiplying, increasingly sophisticated security risks. Even the advanced IT systems that drive global business and underpin our society are susceptible to the latest state-of-the-art threats. As the complexity of our systems grows, so too does our reliance upon them. And when they go down, the consequences can be critical. From a technological standpoint, the proverb ‘the bigger they are, the harder they fall’ is very true.

Governments and corporations alike face the very real risk of a future attack by Electromagnetic Pulse (EMP), which criminals, terrorists and other destabilising agencies can use to disable servers and other electrical equipment for financial or strategic gain. The targeting of advanced technologies to access sensitive data can have catastrophic implications. Protecting them—physically—is more important than ever.

Gunnebo has developed the Secure-IT range to protect servers from intentional and malicious attacks or information gathering. The EMP-certified models ensures that mission-critical IT systems are insulated from the harmful effects of Electromagnetic Pulse (EMP), electronic eavesdropping, and the consequences of targeted, unauthorised access.

Understanding EMP

Electromagnetic Pulse (EMP) radiation is both a natural and manmade phenomenon that can have devastating consequences for IT systems. Whether created naturally by thunder and lightning, or artificially by nuclear devices or electronic generators, high-energy EMP radiation can render electrical and electronic equipment permanently useless. Electrical grids and all electrical equipment—including computers and IT servers—simply cease to function.

If weaponised, EMP radiation would result in a wide range of incidents and disasters. These range from everything from a small, targeted failure of a fire-control system, to a large-scale strike that would plunge countries into a “medieval era” without electricity and power. Weapons that generate the effects of EMP radiation have already been developed, including both electromagnetic weapons and high-altitude nuclear detonations.

An omnipresent threat

Cyber-attacks are on the rise across the world, whether in the form of terrorism, theft, or industrial or military espionage. As our reliance on technology grows, so too does the capability to steal intelligible data without detection. This puts governments, military organisations, and major institutions all at serious risk.

Today, certain advanced technologies cannot only hack networks, but compromise isolated or “air-gapped” systems by surreptitious means. Good “old-fashioned” espionage still poses a major threat, as well. Theft of secrets and proprietary information is often facilitated through poor access control and physical security measures.
In business, the EMP cabinets have been used to guard against threats to critical infrastructure in sectors including:

- Telecommunications
- Banking & Finance
- Energy Transmissions/Generation
- Transport
- Health and Pharma
- Oil & Gas
- IT & Software

Business data centres represent a major business segment, and they require the highest level of security for business critical functions and intellectual property. Failure to protect these important functions can have dramatic consequences on businesses’ value and even their survival.

The Gunnebo Secure-IT range of cabinets is designed to prevent physical attacks on the servers themselves to ensure that deliberate threats to the security information they contain is banished. The EMP models provides the highest security levels on the market today. They are tested and certified according to the SSF 3492 Swedish security standard. For more details on this security standard, contact your local Gunnebo sales office.

Secure-IT Storage concept
Developed in close collaboration with a European Government Agency, Gunnebo has customised Secure-IT Storage concept cabinets to meet increasing demand for equipment protection. The range provides models to protect against both EMP and radio-wave information tapping. Disclosure signal emissions from the cabinet are blocked protecting servers with sensitive data from intrusion, eavesdropping, and information bottling. The cabinets are providing the highest level of physical security protection, more than any similar security cabinet on the market.

For more detailed information, please refer to the Product brochure on the full Gunnebo Secure-IT Cabinet range.

Responding to clients and markets
Designed for both civil and business defence, Gunnebo Secure-IT cabinets provide security and peace of mind for governmental, security and business-critical resources.

The EMP models were developed in cooperation with and used by a European Government, and have been installed in administration departments and embassies around the world. They’ve also been used as fixed installations at defence facilities, and within mobile command centres for combat units. Military contractors and public administration comprise significant customer segments.
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