# AI-embedded hardware cybersecurity solutions for proactive data protection and strategic technology partnerships.

## Summary

| Profile type | Company's country | POD reference |
|---|---|---|
| **Business Offer** | **Singapore** | **BOSG20250326001** |

| Profile status | Type of partnership | Targeted countries |
|---|---|---|
| **PUBLISHED** | **Commercial agreement** | **• World** |

| Contact Person | Term of validity | Last update |
|---|---|---|
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## General Information

**Short summary**

Originating from Singapore, this organization specializes in next-generation hardware-based cybersecurity solutions. It offers AI-embedded security technology designed to protect data at the physical layer, ensuring proactive, autonomous, and real-time defense against cyber threats. The company is open to strategic partnerships, including technology collaborations, system integrations, and distribution alliances.

**Full description**

Headquartered in Singapore, this company is a global leader in hardware-based cybersecurity solutions. With expertise in industrial NAND flash storage and embedded security technologies, it pioneers AI-driven protection at the physical layer, ensuring proactive, autonomous, and real-time defense against evolving cyber threats.

The company offers a suite of AI-embedded cybersecurity solutions designed to safeguard data at its core. Its flagship technology integrates artificial intelligence and machine learning at the hardware level, enabling real-time detection and response to cyber threats, including ransomware, Zero Day exploits, and insider attacks. Unlike traditional software-based defenses, which rely on updates and human intervention, these solutions operate independently, providing a highly secure, self-defending environment for endpoints, servers, and data centers.

The innovative approach focuses on Security by Design, embedding cybersecurity directly into storage and computing infrastructure. By securing data at the closest proximity to where it is stored, the technology eliminates human error, reduces attack surfaces, and ensures a 100% capture rate of malicious activities. Key use cases

include enterprise data protection, critical infrastructure security, secure government and defense applications, and compliance-driven industries such as healthcare and finance.

The company seeks strategic partnerships in various forms, including technology collaborations, system integrations, OEM partnerships, and distribution alliances. It aims to work with enterprises, cybersecurity solution providers, hardware manufacturers, and government agencies to strengthen cybersecurity postures through cutting-edge, hardware-based protection solutions.

## Advantages and innovations

This company's approach to cybersecurity is fundamentally different from traditional software-based solutions by embedding AI-driven protection directly into hardware. Unlike reactive security measures that rely on updates and human intervention, its technology offers real-time, autonomous threat detection and response at the physical layer. This ensures proactive defense against cyber threats, including Zero Day attacks, ransomware, and insider threats, without the need for continuous software updates.

Key advantages include:

Proactive Security: Operates independently of external software layers, eliminating vulnerabilities associated with human error and delayed security patches.

Real-Time Threat Detection: AI-embedded technology continuously monitors read-write patterns and instantly responds to anomalies, preventing data breaches before they escalate.

Zero-Trust Architecture at the Core: Ensures strict access control and security enforcement at the hardware level, reducing attack surfaces and enhancing overall system resilience.

Cost Efficiency: By integrating security at the hardware layer, organizations reduce dependency on multiple software tools, lowering cybersecurity maintenance costs and mitigating financial losses from potential breaches.

Versatile Applications: Suitable for industries requiring high-security standards, including finance, healthcare, government, critical infrastructure, and enterprise IT environments.

This innovative approach transforms cybersecurity from a reactive defense into a fully autonomous, AI-driven safeguard, making it a cost-effective and future-proof solution for modern digital environments.

## Technical specification or expertise sought

## Stage of development

**Already on the market**

## Sustainable Development goals

- **Goal 5: Gender Equality**
- **Goal 12: Responsible Consumption and Production**
- **Goal 10: Reduced Inequality**
- **Goal 17: Partnerships to achieve the Goal**
- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

IPR Notes

# Partner Sought

Expected role of the partner

Commercial partnership
1.      Cybersecurity - Distributor
a.      Recruitment and onboarding of System Integrators / Solution Providers
b.      Have skillset / expertise to drive / setup laptops, SSD and Management Console
c.      1st / 2nd Technical Level Support & RMA to System Integrators / Solution Providers
2.      Cybersecurity - System Integrator / Solution Provider / Reseller
a.      Have skillset / expertise to drive / setup laptops, SSD and Management Console
b.      1st Level Technical Support & RMA to System Integrators / Solution Providers

Type of partnership

**Commercial agreement**

Type and size of the partner

• **SME 11-49**

• **SME 50 - 249**

• **Big company**

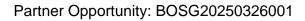• **SME <=10**

# Dissemination

Technology keywords

Market keywords

• **02006008 - Data storage**

• **02005007 - Disk related memory devices**

• **02005010 - Optical disks and drives**

• **02007005 - Communications/networking**

• **02007016 - Artificial intelligence related software**

| Targeted countries | Sector groups involved |
| --- | --- |
| • **World** | |