



**Your Gateway to Trusted Identity**



**Addressing the growing problem of  
loss and abuse of data and identity**



## CardLab

Global leader in advanced biometrics for:

- cybersecurity
- logical/physical access
- Infrastructure protection.
- Self-custodian wallets

We provide:

- fast
- convenient
- secure

identity verification and authentication, protecting data, assets and identities.

**Our mission:**

security that is:

- convenient
- reliable
- scalable.





## Company Milestones

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**2006**  
CARDLAB ESTABLISHED

**2011**  
4 PATENTED  
TECHNOLOGIES DEVELOPED  
FOR SMART CARDS

**2017**  
REGONIZED UNDER EU  
HORIZON 2020  
PROGRAM

**2024**  
Launch Access Card,  
Defender Card, and  
Quardlock Backend  
authentication solution

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## Why Choose CardLab

We have developed probably the most convenient, user friendly and secure biometric Multi Factor Authentication, solution, providing passwordless access and tokenized authentication for enterprises, governments, and critical infrastructure.

- **Proven Expertise:**  
Decades of innovation in biometric and secure card solutions.
- **Advanced Security:**  
Tokenized biometric authentication for robust protection.
- **Global Manufacturing:**  
Precision-driven production in Thailand.
- **Seamless Integration:**  
Compatible with existing systems.
- **Market leadership:**  
Trusted by organizations worldwide



## The rising demand for secure access solutions is driven by alarming trends:

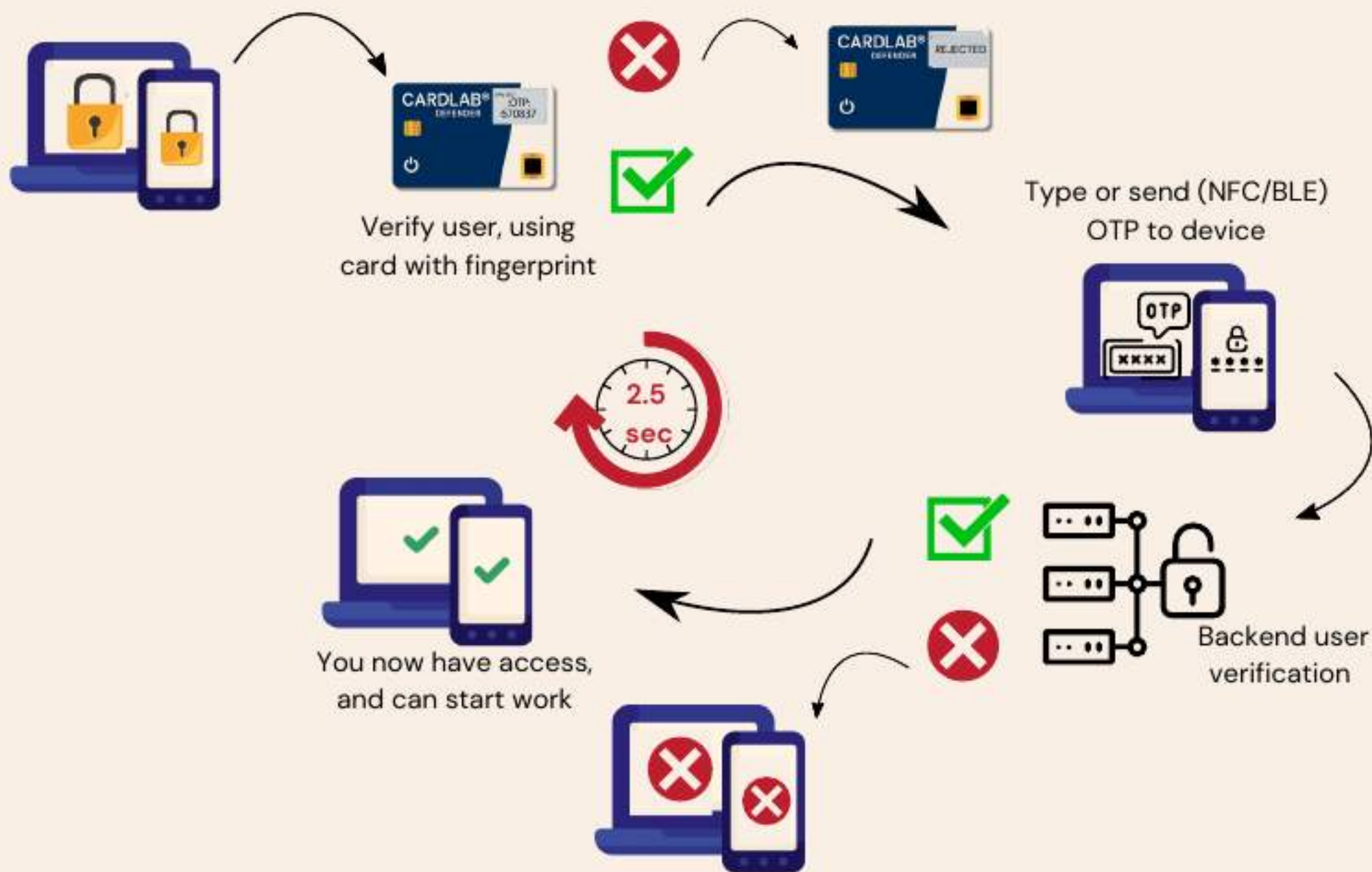
- **\$9.22 Trillion** – Global cost of cybercrime (2024), expected to reach \$14 Trillion by 2028..
- **45%** – Companies reporting security incidents in the last 12 months.
- **86%** – Data breaches involving stolen credentials.
- **74%** – Breaches due to human error, social engineering, and privilege misuse.
- **83%** – Companies concerned about system becoming inaccessibility..

**Biometrics is the preferred login method, recognized as the most secure solution**

# Cyber resilient solutions with CardLab

Emerging threats, including quantum computing, challenge traditional encryption. CardLab addresses these risks with offline biometric verification and identity tokenization, ensuring unparalleled security.

As threats evolve, we continuously refine security strategies, ensuring convenient, reliable, and future-proof protection.



## Working with CardLab

CardLab partners with system integrators worldwide to integrate biometric authentication into existing IT systems.

Our biometric cards are fully customizable to meet specific security requirements and branding needs.

We offer biometric authentication services, with flexible backend deployment options:

- Hosted Authentication as a Service (AaaS)
- White-label solutions
- Onsite installations with Service Level agreement.

**Simplifying Security for a Complex World**

# Secure Card Solutions for Every Risk Level

CardLab provides biometric authentication cards tailored to scalable security needs, ranging from basic access control to advanced tokenized multi-factor authentication with backend token verification.

## The Right Card for Your Needs



### Access Cards

Ideal for:

- Employee ID
- Door access
- System login capabilities.

Integrates:

- Offline Biometric verification
- Contactless communication
- FIDO Authenticator

### Defender Cards

Ideal for:

- Government agencies
- Critical infrastructure
- High-risk industries

Integrates:

- Secure element
- Offline Biometric authentication
- Multi-interface communication



## Custom Solutions

We adapt our standard products to meet specific security, compliance, operational, or branding requirements.

# Hands - on Security

## Scalable Security

From basic to fully encrypted multi-factor authentication and tokenization.

## Tailored Engineering

Custom options for unique business needs.

## Easy Integration

Works with existing systems with API based deployment.

## CardLab Design Kits:

Test the full capabilities of our biometric card solutions.

Defender and Access test kits provide all that is needed to get started.

### The CardLab design kit includes:

- Three cards (Defender or Access).
- Two hours of support by our Denmark R&D team.
- Charger and card reader for easy setup.
- Step-by-step integration instructions.

CardLab configurator access, for personalization of Defender cards included.

CardLab guidance for firsthand experience on how to enhance security, access control and reliable user verification.



Get your Design kit here



# QuardLock

## Next-Gen Identity Management

### Innovative Tokenized Authentication

- Adhering to zero-trust principles, by validating every request.
- FIDO2 Certified



### QuardLock streamlines identity management:

- Linking users to devices, networks, and files.
- Seamless open platform integration
- Standalone Identity Management System function available.



### Passwordless Integration:

- Secure logins via QR code scanning, NFC or BLE & FIDO authentication.

### CardLab Defender and QuardLock combination deliver:

- Secure user authentication
- Protection by tokenization
- GDPR compliance
- Deep fake & Cyber protection



**Simplifying Secure Access**

# QuardLock API: Effortless Passwordless Integration

The QuardLock API solution enables organizations to:

- Replace traditional usernames and passwords.
- Scan a QR code on the screen with their smartphone and authenticate using FIDO technology
- Verify identity by face scan or fingerprint.

1

The QuardLock API login solution help businesses:

- To improve security,
- Streamline access,
- Integrate with existing systems—without major changes.

2

QuardLock backend and API solution secure the move to passwordless authentication is easy, efficient, and with increased security in access control.

Ultimate security level provided by backend biometric card combination.

3



# CardLab Thailand



## Precision & Innovation in Smart Card Production

Our card production in Chonburi, Thailand, is a key CardLab operation, combining advanced technology with efficient, high-quality manufacturing.

### Quality Assurance:

Rigorous testing protocols to guarantee product reliability and performance.

### Complete Production Process:

From inlay assembly to final card production—whether for prototypes or large-scale manufacturing, we handle it all.

### Advanced Materials & Manufacturing:

We continuously refine our processes and qualify materials to support our partners with the best solutions.

With CardLab Thailand, we deliver cutting-edge access solutions worldwide—on time and with consistent quality.



**Scalable Production setup  
Standard to Advanced electronic embedding**

# CardLab – Bringing Your Ideas to Life

We turn your vision into reality with high-quality, customized solutions tailored to your needs.

Whether you have a concept, design, or specific functionality in mind, we work with you to create high-quality, tailored solutions that meet your unique needs.

## Our Process

- **Design & Prototype:**

Our experts refine your concept and create prototypes for testing and validation.

- **Production:**

Your product is manufactured at our specialized facility in Thailand, with options for small or large – scale production.

- **Testing:**

Rigorous quality assurance ensures your product meets industry standards.



**End-to-End Service:  
From concept to delivery**



**Learn how CardLab's Access, Defender,  
and Quardlock Backend solutions  
can protect your enterprise while  
simplifying user experience.**



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