Product Overview
Reader Pro / Controller Pro

Unified Enterprise Access Control
For Facilities
Introduction

Kisi offers simplicity and added security to organizations looking to modernize their approach to physical security. The Kisi Pro line including the Reader Pro - available in indoor (KRP50) and outdoor (KRP80) models - as well as the Pro Controller (KCP50) eliminates the need for local servers, manual operations and localized standards reducing complexity and lowering operating costs.

In place of the local server, each Kisi Pro Reader streams mobile or card credentials directly via PoE through firewall for authentication by the Kisi cloud. Once authenticated, the controller can trigger one of the four possible connected doors to unlock. Beyond that, the controller also acts as control center for the doors -- synchronizing door-open and closed events as well as exit tracking.

This fully encrypted and distributed design offers a number of unique benefits. It improves security by doing away with single points of failure and unmanaged local windows servers. It minimizes manual operations by streamlining on-and off boarding process and it greatly reduces the cost and complexity of expanding the system - new readers and controllers are simply installed without any additional hardware equipment required.

Paired with Kisi’s intuitive web-based software, the Pro line comes alive with powerful new capabilities. It’s easy to grant, edit and revoke access permissions for any user - by door, group or place. A real time activity log, instant search as well as event exporting reduces hassle and speeds up response times.

Kisi makes it possible to remote manage all devices down to even the electronic components. Because the devices are cloud-managed, software updates and upgrades occur automatically. The result? Kisi devices are always up to date with the latest, secure firmware without manual scheduling.

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Table of Contents

Modern, Secure Architecture
   Kisi Reader Pro - KRP50 & KRP80
   Kisi Controller Pro - KCP50

Easy Management
   Powerful Access Control & Secure Remote Access
   Flexible and Customizable Credentials
   Future Proof - Built for Scale

Powerful Integrations
   Direct Integration with Ecosystem
   Works with any existing electronic lock

Streamlined Security
   One security standard for digital tools and physical space
   Full-stack control without 3rd party SDK’s or local servers
   Real Time Events and Predictive Alerts

Further Reading

Our process
   FAQ
   Support Portal
Modern, Secure Architecture

Kisi eliminates the need for local servers and manual maintenance, resulting in a system that is simpler, more secure and easier to operate and manage. Vulnerable protocols between reader and controller which are common in traditional access systems, are omitted by design as all communications go through the firewall first.

**Summary**
- End-to-end encrypted communications architecture eliminates vulnerabilities by design.
- Securely managed by the cloud, Kisi makes it easy to remote manage and control all devices.
- Management and credentials are available and changeable in real-time making operations fast and easy.

Kisi devices are automatically self-secured straight out of the box. This safety layer prevents unauthenticated computers to communicate with the device even if they are on the same physical network.

Looking at an example wiring diagram of a Kisi setup including [Kisi Controller Pro](#) and [Kisi Reader Pro](#) shows a main difference to other systems: The wall reader is directly wired to the firewall forcing incoming traffic running through your security first before communicating with the panel.
Each device communicates only via documented encrypted connections, underpinning an efficient and secure architecture. Credentials that are read and communicated through the devices are encrypted with challenge response and public key infrastructure (PKI), which prevents unauthorized credentials - even in the unlikely event that credentials are somehow copied.

Also, Kisi hardware is manufactured by U.S.-based manufacturing companies. As part of our rigorous production lifecycle, all firmware is cryptographically signed by Kisi to ensure that only authentic firmware can be uploaded to each device.

Lastly, Kisi works exclusively with datacenter operators that meet the highest industry standards for security and privacy including ISO 27001, SSAE16/ISAE 3402 Type II, SOC 2 & 3.
Kisi Reader Pro - KRP50 & KRP80

The reader is installed outside at the door to read user-facing access credentials such as cards or smartphone-based credentials.

**Key Features**
- BLE / NFC wall reader programmable via API
- Power and internet via PoE or low voltage and WiFi
- Over-the-air updateable OS with potential for local cache

The user experience can be customized:

- **Using Kisi’s mobile app**
  - Pull up the App to unlock the door - or
  - Hold the phone to the reader to unlock the door automatically without unlocking the phone using Kisi’ “Tap-to-Unlock” technology

- **Using Kisi Passes to unlock the door**
  - Kisi Passes are 128bit AES encrypted cards which are based on the MiFare DesFire EV 1 card platform.

*Read more about the Kisi Reader Pro: [https://www.getkisi.com/products/reader](https://www.getkisi.com/products/reader)*

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Kisi Controller Pro - KCP50

The controller is installed mostly in the IT or communications room and connects up to 4 wired electronic door locks to their relays. For more than 4 doors, the Kisi controller can be added as modules and scale up to unlimited number of locks.

**Key Features**

- 4 powered or unpowered door relays, 4 door contact sensor inputs, 4 push to exit inputs
- Power via Ethernet or WiFi
- Over-the-air updateable OS with potential for local cache

The administrator experience includes the following workflows:

- Plug & Play connection
- Manage and see device status in Kisi dashboard
- Program all in- and outgoing connectors via Kisi dashboard

Read more about the Kisi Controller Pro: [https://www.getkisi.com/products/controller](https://www.getkisi.com/products/controller)

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Easy Management

Powerful Access Control & Secure Remote Access

Kisi’s secure web-based application empowers administrators to easily and effectively manage access rights for their entire organization. Effortlessly grant and restrict user access to an individual door, pre-configured group or location, and apply user roles to establish an access rights regime that fits an organization’s needs. Need to grant a new regional manager access to 5 locations? Kisi makes it straightforward and painless too.

The software also makes it easy to securely share access rights and event logs of parties such as vendors or guests with approved third parties like law enforcement and legal professionals. Event logs can be exported and expiration-dated access can be easily granted. With Kisi, there is also the ability to remotely check the status of a door and unlock it remotely - a potentially life-saving feature during instances of active threats or prolonged security incidents.

Key Features

- Granular controls for user, door and location
- Time-restricted access
- Detailed access logs

Read more about the Kisi Dashboard:

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Flexible and Customizable Credentials

Getting in the office shouldn’t be hard. However it must be secure. That’s why Kisi offers flexible mobile and physical credentials which offer different use-cases but don’t compromise on security.

- **Smartphone credentials** support iOS and Android with respective native Apps. Since door access requires direct communication between phone and reader, we use BLE (Bluetooth) on iOS and NFC on Android. Should you have your own App, it is also possible to include Kisi’s functionality in it. Read more here.

- **NFC cards and tags** are built on the powerful MiFare DesFire EV1 standard which is one of the best NFC smartcards. Building on top of that platform we custom encrypt each hardware credential with 128bit AES encryption in our facilities so there is no compromise in security compared to using Apps. Cards and tags can be de-activated anytime by the user in the mobile App - an additional security feature.

<table>
<thead>
<tr>
<th>iOS / Android App</th>
<th>NFC Card Credentials</th>
<th>NFC Tag</th>
</tr>
</thead>
</table>

**Key Features**

- Secure credentials in different yet secure formats
- Branded credentials for employees
- End user can self-disable access

Read more about the Kisi Credentials:
[https://www.getkisi.com/products/mobile-app-access-card](https://www.getkisi.com/products/mobile-app-access-card)

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Future Proof - Built for Scale

Future proof is essential for us. In the end we are talking about your door access system and no one wants to replace that very often.

Unified Access Control

With most systems, you are constantly transitioning as you grow:
- You first start with a ‘small-size’ company system
- Then you need a ‘mid-size’ company solution
- When you are larger, you go enterprise

It doesn’t have to be that way. With Kisi you can start with a small POC (Proof of Concept) like limited deployment without compromising functionality and security. When you are ready, you can then seamlessly scale up the solution across your facilities to unify your access control.

Over-the-Air Updates

Manually maintaining infrastructure is a task that no one really has the time to do - or can’t do remotely. That’s why all of Kisi’s devices receive Over-the-Air updates of signed firmware which includes the latest security updates and product improvements.

Credential Agnostic

The smartphone might be the most widely accepted modern credential currently, but maybe in the future we use our watches, headphones or just our behavior to unlock the door via biometrics and blockchain encrypted. Kisi’ platform is ready to adopt future credentials as technology evolves - without changing your hardware at the door.

Key Features

- Unify your access control at locations in any size
- Every device has an OS ready to be updated over-the-air
- Credential agnostic and ready for what is coming next

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Powerful Integrations

Direct Integration with Ecosystem

One of the largest benefits of going mobile with door security is the ability to manage credentials dynamically: Imagine every time you adding someone to your Active Directory and they automatically get door access shared corresponding to their level of access. You can also add the Kisi app to your MDM for automated provisioning. Of course, this is even more critical when terminations happen as all credentials should be revoked in real time in a predetermined automated manner.

This is why Kisi allows out-of-the-box integrations with the most popular Active Directory services such as Microsoft Azure AD or Google Apps. We believe that allowing you to audit door access like any other service you are using in your setup should be a standard feature in your security workflows.

Key Features
- Out of the box Active Directory integrations with Google or Microsoft Azure
- Audit door security like any other IT system

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Works with any existing electronic lock

Every door and location is different. Sometimes you move in a space with pre-existing electronic door hardware, sometimes you build out your space. In either case, Kisi works with any wired electronic lock that is already pre-existing or about to be installed. This allows you to be flexible during construction and planning phase as you can connect Kisi to the system later on without special requirements.

The components most relevant for common compatibility issues are:
- **Electronic locks:** Typically doors use electric strikes, electronic mortise locksets or magnetic locks.
- **Wiring:** The Kisi Reader Pro needs a CAT6 cable at the door while the lock typically runs on low voltage 18/2 gauge wire.

**Key Features**
- Compatible with standard electronic locks
- Works with typical IT cabling
Streamlined Security

One compliant security standard for physical space

Most companies set up SSO (Single-Sign-On) and 2FA (Two Factor Authentication) for their apps to control security wherever the user might be. Why not include your doors in that setup? If you are running Okta, just connect Kisi to your Okta account and provision keys automatically from there. You could also potentially set up MFA (Multi-Factor-Authentication) for specific doors like server rooms, executive doors or data centers to increase security.

This helps passing compliance audits for standards like SOC2, ISO, PCI, HIPAA and many more a lot easier by the way. Read more about achieving different compliance standards [here](#).

<table>
<thead>
<tr>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Expand digital security setup to doors</td>
</tr>
<tr>
<td>- 2FA on mobile makes app based unlocks secure with BYOD</td>
</tr>
<tr>
<td>- Get doors under the SSO umbrella of the organization</td>
</tr>
</tbody>
</table>

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Full-stack control without 3rd party SDK’s or local servers

Kisi’s mobile technology does not rely on external SDK’s such as HID. This allows us to perfect the experience and security faster than the market evolves. A simple example: Adding Two Factor security to our app doesn’t require any waiting for HID. There are no dependencies when one system updates and the other is not. We don’t need a separate server to host the mobile credentials. These are all the things you wouldn’t necessarily think of when comparing two access control system provider, but in practice it is a major difference.

Key Features
- No dependency on 3rd party SDK
- Control end-to-end security
- No downloading or synchronizing of credentials

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Real Time Events and Predictive Alerts

Kisi’s devices generate data which can be used for getting security, workflow or load insights. For us, modern door security is really the first step. Using AI and machine learning will push security in facilities to the next level.

Here are a few examples how you can use Kisi’s data today:

- **Event log**: Use the real time event log to stream access data from unlocks with user name, lock name and timestamp to door open and closed events or request to exit triggers.
- **Heatmap**: See how your space is used by looking at heatmaps of unlock activity in your space.
- **Predictive arrival times**: Once the system has been used for enough time, Kisi understands the patterns of each individual and can predict arrival time windows. Thus when an unexpected event might occur, you get notified. This is the first step to making door security as secure as credit cards.

<table>
<thead>
<tr>
<th>Key Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Every device has an OS ready to be updated over-the-air</td>
</tr>
<tr>
<td>• BLE and NFC technology</td>
</tr>
<tr>
<td>• Credential agnostic</td>
</tr>
</tbody>
</table>

Join the fastest growing door security platform
sales@getkisi.com, (+1) 646 663 4880
www.getkisi.com
Further Reading

Our process

Our process starts with free training and setup by a certified Kisi installer:

1. First, we stop by for a visit
   A certified local Kisi installer near you pays your office/building a visit for a walk-through. This is how we find out what we’ll be needing for your install: tools, supplies, and locking hardware.

2. Get a quote, tick all the boxes
   After we’ve evaluated your office/building, we’ll send you a quote for building your custom access control system.

3. Hardware shipped
   As soon as we get your order, we’ll ship the hardware immediately. If you are in New York, you’ll get it on the same day you ordered - via Uber Rush.

4. Pre-installation
   We’ll have a dedicated installation specialist assigned to you. They will be with you throughout the install to make sure all your questions are answered and your concerns are taken care of during the installation of your Kisi system.

5. Complete installation
   Once your Kisi system is installed, your specialist will connect your controller to your door locks and help you setup your account(s), create doors and start generating your keys!

Read more about our process: https://www.getkisi.com/how-it-works
FAQ

- Who provides the hardware and mobile credentials?

Kisi does not use 3rd party SDK’s like HID for mobile credentials or outdated legacy hardware such as HID or Honeywell that is outside of our control. Instead we took an “Apple-like” approach to the industry and built a better system front-to-end.

- Is the system end-to-end encrypted?

Because Kisi controls the entire stack of the access control system, communication in each step is documented and encrypted on standard cyber security protocols. If you look around, we might be one of the few ones who can answer the question about security documentation much easier and more complete than others.

- How can I remote manage and monitor the system?

The Kisi Dashboard is built to manage all your Kisi places from one dashboard. No special configuration is required - just start with your first location and expand over time or standardize access security across all your locations with one seamless setup.

- What happens when internet or power goes out?

In any installation, Kisi is installed with an analog backup in place to prevent the worst. For cases when the power goes out and your building doesn’t have a backup generator already, the system can be equipped with a backup power supply to keep doors in a certain condition. The ultimate analog backup is often a key switch or pin pad.

Support Portal

For more support, our support portal can be found via this link: https://help.kisi.io/hc/en-us

Or contact us directly:
support@getkisi.com
(+1) 646 663 4880