# COMELIT
## FEEL · SECURE

**PAC** ACCESS CONTROL ▬

## Keeping you secure.



www.comelitgroupusa.com

# Comelit. SINCE EVER.

Comelit has, **since 1956**, grown from a base of **intercom and video intercom** solutions into **being a world leader in integrated security solutions** including anti-intrusion, video surveillance, home automation, fire detection and access control systems alongside video door entry systems.

With **values of constant evolution**, user friendliness, reliability, and multi-functionality, Comelit is **your trusted security partner** for securing residential, educational, public sector and commercial customers.

## OUR PROMISE, OUR COMMITMENT.

# FEEL SECURE

Comelit has a **global presence and support capability** with 10 branch offices, 6 R&D centers, more than 900 employees and a commercial presence in over 90 countries. **Feel Secure,** where your success is our success.

Comelit-PAC, is the **specialized Access Control division** within Comelit, with over 40 years' experience in **designing and manufacturing** secure access control products. Working **closely in partnership** with consultant engineers, architect partners, distributors, and installers, **enables** the PAC products to be **continually developed** and meet the requirements of the **access control market** and its associated legislation.

# PAC Access Control.
## KEEPING YOU SECURE.

Our market leading **PAC access control** is built on a foundation of **continuous innovation** in security systems that are **scalable, easy to install and maintainable.**

Our offering includes **readers, controllers, ID devices and management solutions**, which can be **seamlessly integrated** with door entry, video surveillance, time and attendance, intruder and fire safety systems.

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# What We Do

## READERS

Truly versatile, scalable and backward compatible for ease of upgrading, the PAC readers provide an unparalleled standard of security and robustness in a variety of applications.
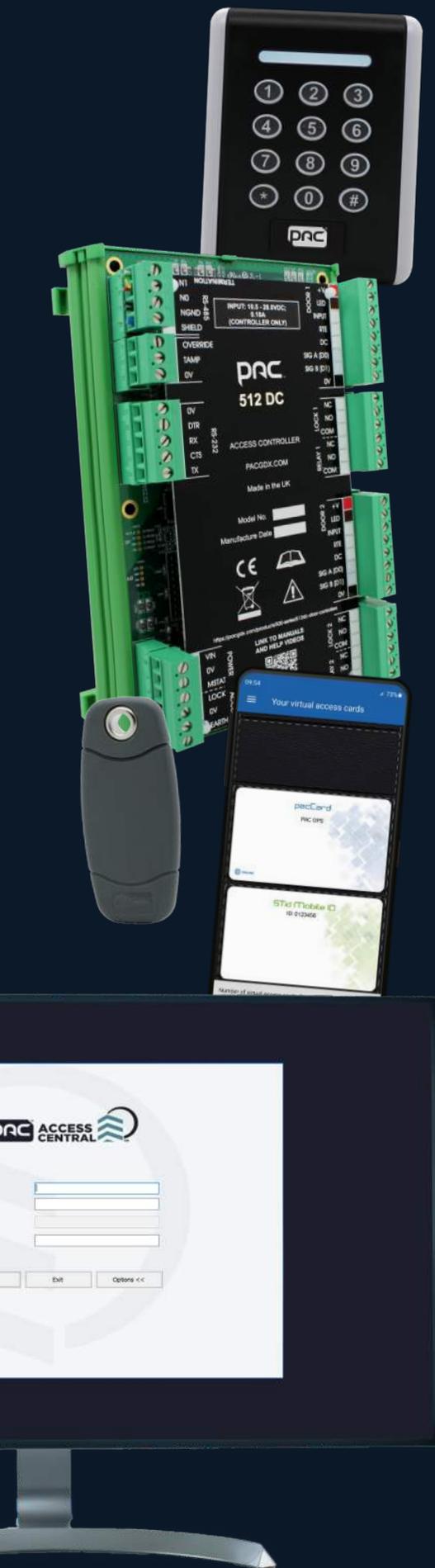
## CONTROLLERS

With unbeatable reliability and flexibility, our extensive range provides a multitude of solutions to suit a variety of applications and environments.
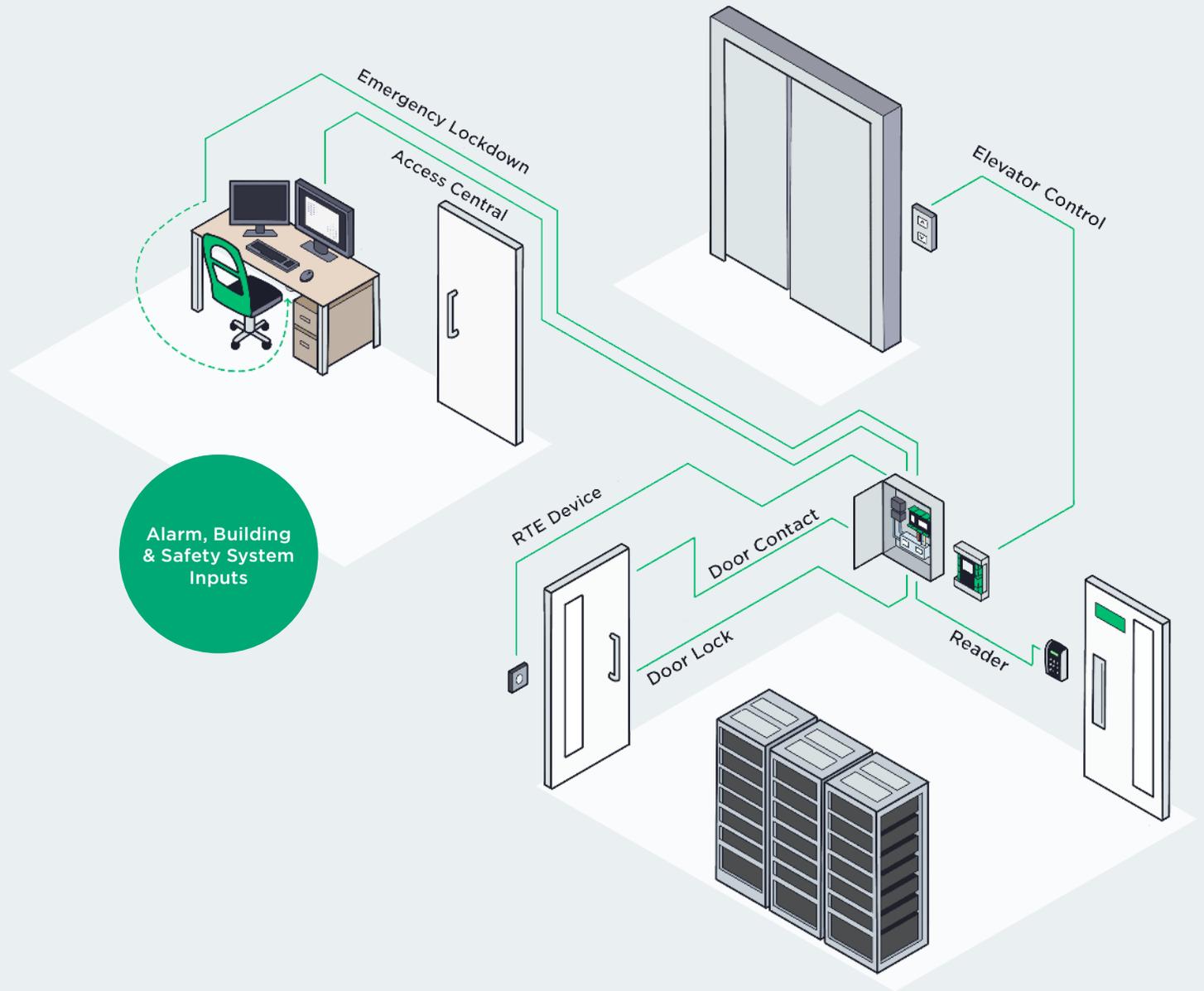
## CREDENTIALS

PAC credentials come in a range of forms (key fob, card or mobile) and technology types that enable a variety of user options.

## MANAGEMENT SOFTWARE

Our software integrates seamlessly with the PAC controllers to provide a powerful configuration and in-life proactive management platform.
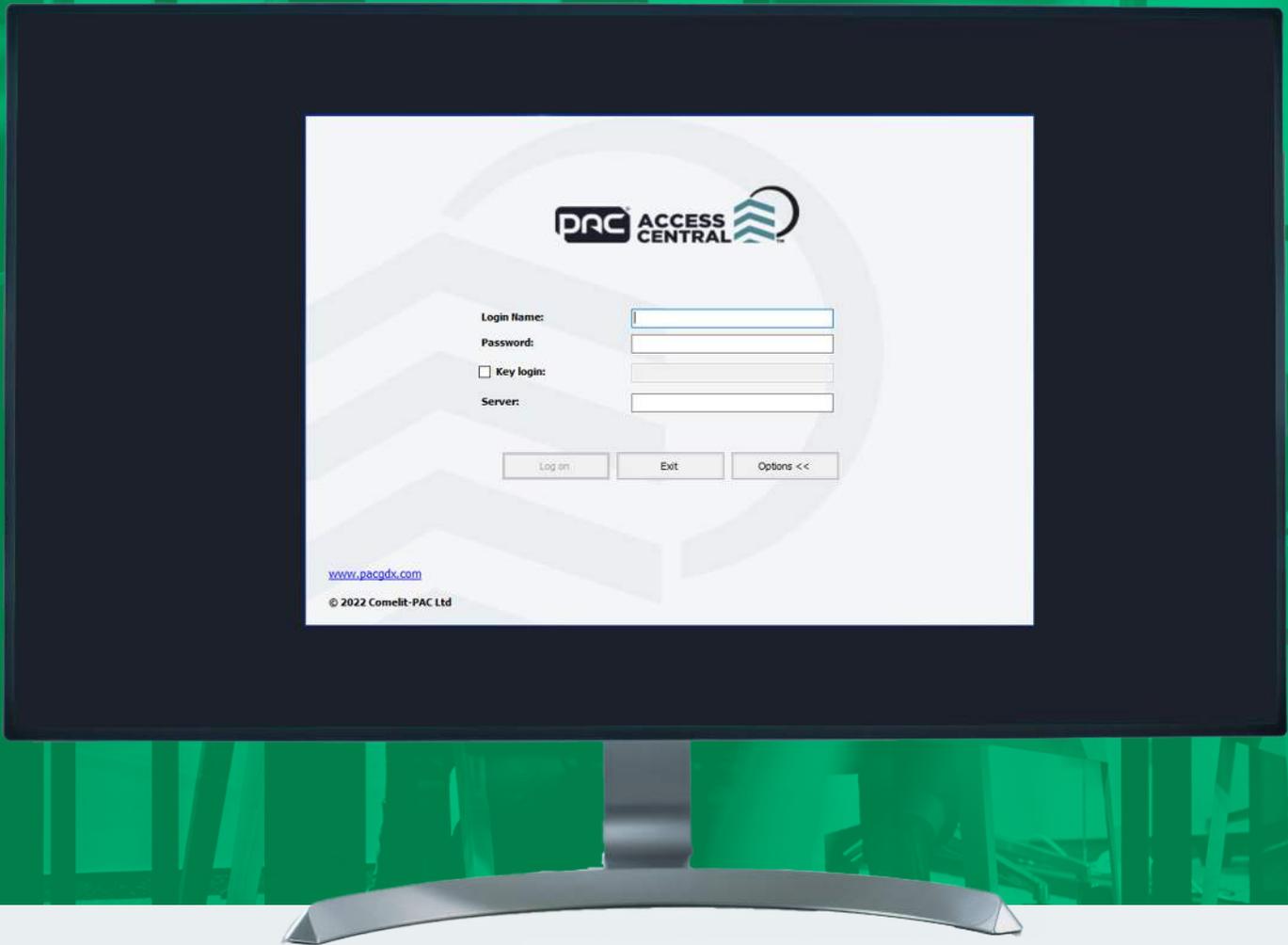
# Adding PAC Value

Emergency Lockdown

Access Central

Elevator Control

Alarm, Building
& Safety System
Inputs

RTE Device

Door Contact

Door Lock

Reader

## Designed to provide unbeatable reliability and functionality

With over 60 years' experience in designing and manufacturing secure access control products and integrated security solutions, PAC provides a well-established range that delivers flexible integrated security solutions for the commercial and residential market sectors.

# Management Software

Our management solutions take PAC access control away from a valid key opening a door to a proactive management and monitoring solution.

Designed on the principles of ease of use, flexibility and value, PAC software supports the scaling of a PAC system from small to large installations as well as simple to complex feature capability. PAC software also delivers integrated security solutions through programmable Event to Action rules that interact with other building/safety system hardware as well as a powerful API for software integration.

# PAC Access Central software platform protects people, property and assets.

Our management software is committed to support people safety and building security policies being automatically enforced, monitored and reported on within the PAC system.

## Designed with the user in mind.

PAC management software is built around a User Interface that supports the different roles within an organization through a focus on logically providing configuration, alarm & event monitoring and reporting screens for reliable management of a PAC system.

Value can be added through integration through a standard SDK API that supports a large range of integrations into Visitor Management, Time & Attendance, Fire, Building, Payment systems to name but a few.

# PAC Access Central™

**Designed for commercial applications.**

A management platform dedicated to commercial, educational, and residential environments.

Access Central is a powerful software management platform designed to support all customers with their access control and building management policies and real-time monitoring. Dedicated to supporting a wide range of security requirements suited for deployment in commercial, educational, or multi-tenanted residential sites means that Access Central becomes the single pane of glass for operating your PAC access control system.

| SOFTWARE LICENSE |
|---|

**Management: Access Central™ SE licence**

13490/1.00

*For systems up to 250 doors and 20,000 cardholder records.*



**Management: Access Central™ Pro licence**

13491/1.00

*For systems up to 2000 doors and 75,000 cardholder records*



*Software downloadable from the pacgdx.com website.*

| FEATURE PACKS |
|---|

**Management: Option - Access Central™ Active Directory**

13494/1.00



**Management: Option - Access Central™ Token format**

13495/1.00



**Management: Option - Access Central™ Browser interface**

13493/1.00

# PAC Access Central™ • Software Features

| Features | SE Edition | Professional Edition |
|---|:---:|:---:|
| **FEATURE LICENCE LIMITS** | | |
| No. of Doors | 250 | 2000 |
| Areas | ✓ | ✓ |
| No. of Time Profiles | 20 | 2000 |
| No. of Holiday Profiles | 5 | 200 |
| No. of Access Groups | 1000 | 5000 |
| Event To Action Manager | ✓ | ✓ |
| Area Management | ✗ | ✓ |
| Elevator Call | ✓ | ✓ |
| Elevator Control | ✓ | ✓ |
| Elevator Management | ✗ | ✓ |
| No. of Elevator Cabs | 20 | 100 |
| CCTV | ✓ | ✓ |
| Occupancy Tracking | ✗ | ✓ |
| Managed Entrance | ✗ | ✓ |
| Global Anti-Passback | ✗ | ✓ |
| Guard Tour | ✗ | ✓ |
| Time Zones | ✓ | ✓ |
| Card Designer | ✓ | ✓ |
| Access Options | ✓ | ✗ |
| Alarm Management | ✓ | ✓ |
| Alarm Point Time Profiles | ✓ | ✓ |
| Alarm Configurable Arm/Disarm | ✓ | ✓ |
| Event Archiving | ✓ | ✓ |
| PC Pop-up Alerts | ✓ | ✓ |
| Personal Access | ✓ | ✓ |
| Area Mode Profiles | ✗ | ✓ |
| Door Mode Profiles | ✓ | ✓ |
| Reader Mode Profiles | ✓ | ✓ |
| No. of Muster Points | 10 | 100 |
| Audit Trail | ✓ | ✓ |
| Map Designer | ✓ | ✓ |
| Card Formats | Feature Pack | ✓ |
| Visual Verification | ✓ | ✓ |
| Local Anti-Passback | ✓ | ✓ |
| Event Relay | ✓ | ✓ |

# PAC Access Central™ • Software Features

| Features | SE Edition | Professional Edition |
|---|---|---|
| **HARDWARE LICENSE LIMITS** | | |
| IP channels supported | ✓ | ✓ |
| No. of Direct channels | 50 | 100 |
| No. of Dialup channels | 50 | 750 |
| Over-Air-IP | ✓ | ✓ |
| VPN for Over-Air-IP | ✓ | ✓ |
| No. of 512 controllers on a Direct channel | 24 | 24 |
| No. of 512 controllers on an IP channel | 24 | 24 |
| No. of 512 controllers on a Dialup channel | 4 | 4 |
| PAC 520/530 support (I/O controllers) | ✓ | ✓ |
| No. of 520/530 I/O controllers Supported | 4 | 4000 |
| No. of 520/530 I/O controllers on a PAC 512DC/DCi Channel | 4 | 4 |
| **COMPATIBILITY FEATURES** | | |
| No. of PAC 500 channels | ✗ | 500 |
| No. of PAC 512 (and PAC 500 controlled 520/530) Controllers on a PAC 500 channel | ✗ | 24 |
| PAC 212 support | Feature Pack | Feature Pack |
| **USER LICENSE LIMITS** | | |
| No. of PAC 500 channels | ✓ | 500 |
| Cardholder records | 20000 | 75000 |
| Operators | 25 | 100 |
| Unused Card Expiry | ✓ | ✓ |
| **SYSTEM LICENSE LIMITS** | | |
| Org Units | 5 | 100 |
| Client PCs | 5 | 15 |
| Alarm Workstations | 2 | 8 |
| Web Browser Interface | Feature Pack | ✓ |
| Active Directory | Feature Pack | Feature Pack |

# Management Options

A range of accessories and supporting components for ease of installation and management of PAC systems.

## PC BUILDS

**Management: Pre-configured Cube with Access Central™ SE**

PAC-MGT-CB-AC-SE-US

*Pre-configured cube with Access Central™ software.*

## PAC GS3 ADMINISTRATION AND INTERFACE KITS

**Management: Admin Reader - Multi-tech, USB cable**

909020115

*Administration Kit for adding credentials in to PAC Access Central™ or easinet™ Residential Software.*
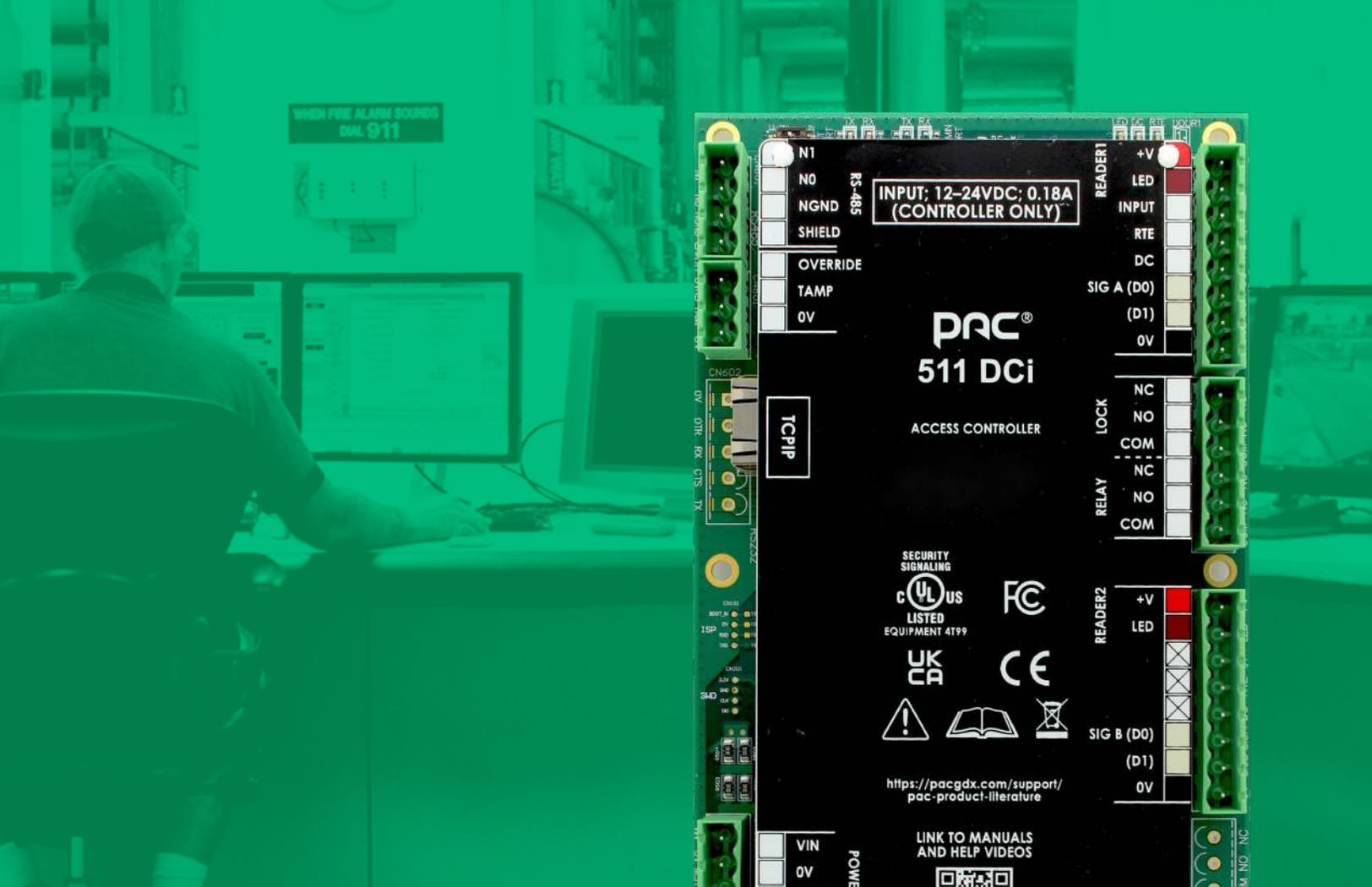
## LEGACY PSU

**READYKEY™ K2100/K2200 8-Amp Power Supply Amp**

909021930

*Replacement power supply for a K2200 controller*

# Controllers and Kits

## Our extensive range provides a multitude of solutions to suit a variety of applications and environments.

Developed under the rigorous eye of industry experts, PAC Controllers follow strict compliance standards to ensure our equipment works in all possible conditions. From a simple two-door controller to a global network system that connects and controls access in multiple locations, PAC offer solutions to match your specific requirements.

# 511 Controllers

**Fully featured 1 door access controllers that form the basis of our Networked Access Control solution.**

Scalability from 1 to 2,000 doors • Security Level: Medium or High

2,000 doors        20,000 ID Devices

**Controller: 511 - DCi, DIN Mount**

909032511

*DIN mount version. Designed for installing in our 4 or 6 way cabinets*

**Controller: 511 - DCi, enclosure, 3A PSU**

909031511

*Pre-wired with 3Amp PSU in metal case with tamper switch and circuit*

# 512 Door Controllers

**Fully featured 2 door access controllers that form the basis of our Networked Access Control solution.**

Scalability from 2 to 2,000 doors • Security Level: Medium or High

2,000 doors        20,000 ID Devices

## 512DCi CONTROLLERS

**Controller: 512 - DCi, DIN Mount**

909030155

*IP controller, complete with DIN Mount for fitting in to PAC's 4 or 6 way DIN Mount enclosures*

**Boxed PAC 512 DCi Access Controller**

909037154

*IP Controller with lockable metal case, tamper switch and 7A 12 or 24VDC Power Supply/Charger*

## 512DC CONTROLLERS

**Controller: 512 - DC, DIN Mount**

909030055

*RS-485 serial controller, complete with DIN Mount for fitting in to PAC's 4 or 6 way DIN Mount enclosures*

**Boxed PAC 512 DC Access controller**

909037054

*RS-485 Controller with lockable metal case, tamper switch and 7A 12 or 24VDC Power Supply/Charger*

## High Security 1 Door Starter Kit

PAC1SKITUS

*Contains Boxed PAC 511 DCi in metal enclosure with 3A PSU and 1 GS3 Mullion MT reader*

## High Security 2 Door Starter Kit

PAC2SKITUS

*Contains Boxed PAC 512 DCi in metal enclosure with 3A PSU and 2 GS3 Mullion MT readers*

## High Security 2 Door Expansion Kit

PAC2EKITUS

*Contains Boxed PAC 512 DC in metal enclosure with 3A PSU and 2 GS3 Mullion MT readers*

# 511 DCi
## one door controller

The 511 DCi one-door controller brings great new flexibility to the PAC Access Control Range, significantly reducing installation costs for prewired buildings or replacing existing Access Control systems.

# Controller Accessories

A range of high quality accessories for flexibility in building or upgrading your PAC system.

## POWER SUPPLY UNITS

**12V Power Supply with Battery Charger**

DIN Rail: 909032059

*Output 12 V DC at 50W*

**24V Power Supply with Battery Charger**

DIN Rail: 909032059/1.00

*Output 24 V DC at 50W*

**12/24V Power Supply with Battery Charger**

909022008

*Output 12/24 V DC at 99W*

## ENCLOSURES

**Enclosure: 4-way - lockable enclosure with DIN rail**

10081

*H: 19.5 in.W: 20.5 in. D: 3.75 in.*

**Enclosure: 6-way - lockable enclosure with DIN rail**

10082

*H: 29.5 in.W: 22.5 in. D: 3.75 in.*

## UPGRADE KITS

**Retrofit Kit - PAC 2000 Series to PAC 512 Series Controller Back Plate**

909021753

*Complete with fixings for two PAC 512 series controllers*

# Input & Output Controllers

**Fully featured Input and Output Controllers for connecting to and driving additional sensors and equipment on site.**



Input Relay

Output Relay

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**Controller: 520 - Input, DIN Mount**

909020053

*DIN mountable 520 Input Controller. Features 20 Inputs and 2 Outputs*



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**Controller: 530 - Output, DIN Mount**

909020052

*DIN mountable 530 Output Controller. Features 12 Outputs and 2 Inputs.*



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# FEATURE-RICH
## controllers

**The I/O Controllers support alarm management and the PAC Event to Action rules built and managed within the PAC management software.**

The PAC I/O Controllers are feature rich and highly configurable that deliver enhanced security and building control including, but not limited to, Elevator control, monitoring, alarms, sounders, security shutters and CCTV pre-sets.

# Readers

**PAC Readers provide an unparalleled standard of security and robustness in a variety of applications.**

A wide range of PAC readers are available to meet customers' requirements, based on a variety of factors including authentication method, installation options or aesthetics. They are all designed and manufactured to high standards with a deserved reputation for their longevity in all environments.

# PAC Multi-Technology Readers


**MT**
Multi-Technology

PAC's range of MT readers support both LF and HF credentials including PAC Ops (13.56MHz), PAC (153kHz) and KeyPAC (125kHz) credentials as well as other standard 125kHz LF and 13.56MHz HF RFID credentials.

Security Level: Medium or High

### Reader: RFID MT - Mullion

909020112

*Compact, IP65 rated reader designed to fit onto a door frame*

### Reader: RFID MT - Standard

909020113

*IP65 rated reader designed to fit with most standard electrical backboxes*

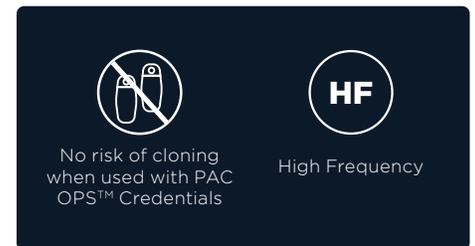### Reader: RFID MT - PIN & Proximity

909020114

*IP65 rated dual authentication reader designed to fit with most standard electrical backboxes*

# PAC High Frequency Readers


No risk of cloning when used with PAC OPS™ Credentials
**HF**
High Frequency

PAC's range of HF readers support PAC's unclonable OPS™ credentials as well as other standard 13.56MHz RFID credentials.

Security Level: High

### Reader: RFID HF - Mullion

909020120

*Compact, IP65 rated reader designed to fit onto a door frame*

### Reader: RFID HF - Standard

909020121

*IP65 rated reader designed to fit with most standard electrical back-boxes*

### Reader: RFID HF - PIN & Proximity

909020122

*IP65 rated dual authentication reader designed to fit with most standard electrical back-boxes*

### Reader: RFID HF - Vandal, blue & grey

909022118

*High durability, IP67 rated vandal resistant reader certified to Security Grade 3 level*

### Reader: RFID HF - Vandal, black & white

909020118

*High durability, IP67 rated vandal resistant reader certified to Security Grade 3 level*

### Reader: RFID HF - Panel, blue & grey

909022119

*IP65 rated panel mount reader to fit into standard panel openings for integration with intercoms and other systems*

### Reader: RFID HF - Panel, black & white

909020119

*IP65 rated panel mount reader to fit into standard panel openings for integration with intercoms and other systems*

# PAC Low Frequency Readers

PAC's range of LF readers support PAC's PAC (153kHz) and KeyPAC (125kHz) credentials as well as other standard 125kHz RFID credentials.

Security Level: Medium



2 doors     2,000 ID Devices

### Reader: RFID LF - Mullion

909020110

*Compact, IP65 rated reader designed to fit onto a door frame*



### Reader: RFID LF - Standard

909020111

*IP65 rated reader designed to fit a single-gang electrical backbox*



### Reader: RFID LF - Vandal, black & white

909020116

*High quality, IP67 rated vandal resistant reader certified to Security Grade 3 level*



### Reader: RFID LF - Vandal, blue & grey

909022116

*High quality, IP67 rated vandal resistant reader certified to Security Grade 3 level*



### Reader: RFID LF - Panel, black & white

909020117

*IP65 rated panel mount reader designed to fit into standard panel openings for integration with intercoms and other systems*



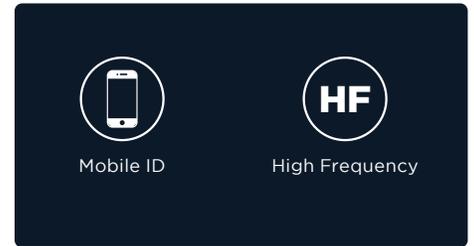### Reader: RFID LF - Panel, blue & grey

909022117

*IP65 rated panel mount reader designed to fit into standard panel openings for integration with intercoms and other systems*



# Architect Range by PAC

A range of readers designed by architects that support PAC Ops and Digital smartphone credentials.

Security Level: High



Mobile ID     High Frequency

### Reader: Bluetooth RFID HF - Architect Mullion

7257711

*Compact bluetooth reader supporting Smartphone Mobile IDs and PAC Ops credentials*



### Reader: Bluetooth RFID HF - Architect Standard

7257713

*Standard bluetooth reader supporting smartphone Mobile IDs and PAC Ops credentials*



### Credential: Mobile - PAC OPS™, blue

7257718

*AES 128Bit encrypted Smartphone Digital credential. Encrypted smartphone credential, equivalent to PAC Ops security.*
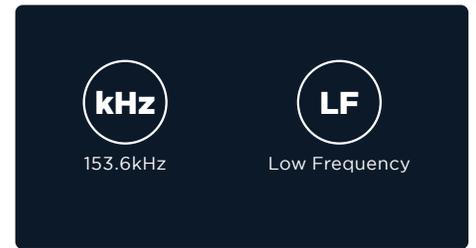
# Credentials

PAC credentials come in a range of forms (fob, card or mobile) and technology types that enable a variety of user options.

PAC credentials suit many different access control deployments and user options throughout the commercial, residential and educational sectors. The following sections detail the credentials when ordered with the PAC access control system.

# PAC Credentials

**PAC credentials are a range of 153Khz Key fobs and Cards. They use passive RFID technology and require no batteries.**

Security Level: Medium

kHz
**153.6kHz**

LF
**Low Frequency**

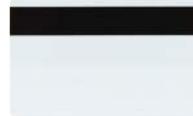### Credential: PAC Card - qty 10

PAC-CD-CR-PACC

*PAC ISO Proximity Card with support for direct thermal or image transfer printing (K2011B). Previous part number was 909021039.*

### Credential: PAC Card - magnetic stripe, qty 10

PAC-CD-CR-PACC-M

*ISO Proximity Card with a magnetic stripe (K2011M). Previous part number was 909021041.*

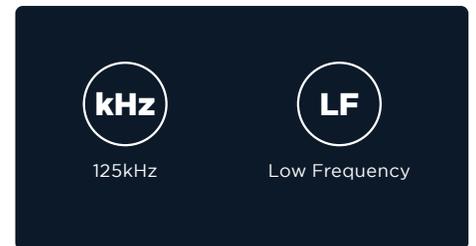### Credential: PAC Fob - black, clip, qty 10

PAC-CD-FB-PACC-CLP

*Fully encapsulated proximity key fob in black ABS plastic, double sealed and ultrasonically welded.(K2010)*

# KeyPAC Credentials

**KeyPAC is a 125Khz range of Key fobs and Cards which are passive proximity devices and require no batteries.**

Security Level: Medium

kHz
**125kHz**

LF
**Low Frequency**

### Credential: KeyPAC Card - qty 10

PAC-CD-CR-KPAC

*KeyPAC ISO Proximity Card with support for direct thermal or image transfer printing. Previous part number was 909021018.*

### Credential: KeyPAC Card - magnetic stripe, qty 10

PAC-CD-CR-KPAC-M

*PAC ISO card with a magnetic stripe. Previous part number was 909021019.*

### Credential: KeyPAC Fob - white, clip, qty 10
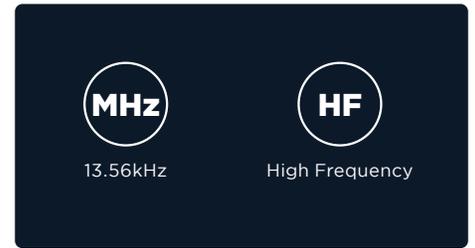
PAC-CD-FB-KPAC-CLP

*Fully encapsulated proximity key fob in black ABS plastic, double sealed and ultrasonically welded.*

# Smart Key Fobs

**Fully encapsulated proximity key fob in black ABS plastic, double sealed and ultrasonically welded.**

Security Level: High



MHz
13.56kHz

HF
High Frequency

**OPS™ MIFARE® DESFire® EV1 Token, 4K with clip, pack of 10 - grey**

PAC-CD-FB-OPSC-CLP

*Fully encapsulated in grey ABS plastic, double sealed and ultrasonically welded. Previous part number was 909021103.*
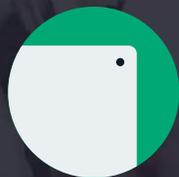
**OPS™ MIFARE® DESFire® EV1 Card, 4K, pack of 10**

PAC-CD-CR-OPSC

*ISO card allowing for direct thermal or image transfer printing. Previous part number was 909021106.*

# CARD identification

OPS LITE (MIFARE) and OPS (MIFARE DESFire EV1) ISO Proximity Cards are easily distinguished by the small dot pattern in the corner of each card. This pattern is provided as both an identifier and card orientation mark.

HOW TO IDENTIFY
OPS LITE

HOW TO IDENTIFY
OPS

# COMELIT
## TRAINING ACADEMY

Comelit-PAC's Training Academy courses are designed to give you the knowledge and skills to install and commission our solutions. Our comprehensive courses cover all aspects of system design, including installation, configuration and commissioning.

You will gain theoretical experience and techniques required to get the most out of our solutions. Our training will also enable you to maximize your use of time during the installation process.

Different solutions require different approaches to training. Depending on experience and technologies, our training courses are designed to cater from installation engineers to end users.

# Contact Us

## SALES

**Tel:** +1 626 930 0388 opt. 2
**Email:** pac.sales@comelitusa.com

Our experienced sales team are here to ensure your security solution is fit for purpose. Whatever your secure access control need is, we have the solution. Contact our team of nationwide experts today.

## TECHNICAL SUPPORT

**Tel:** +1 626 930 0388 opt. 2
**Email:** pac.tech@comelitusa.com

Our technical support teams are highly skilled in answering any questions you have in relation to our products. We have specialist skills in communication and IT related areas and are able to provide supporting documentation.

# NOTES

# COMELIT