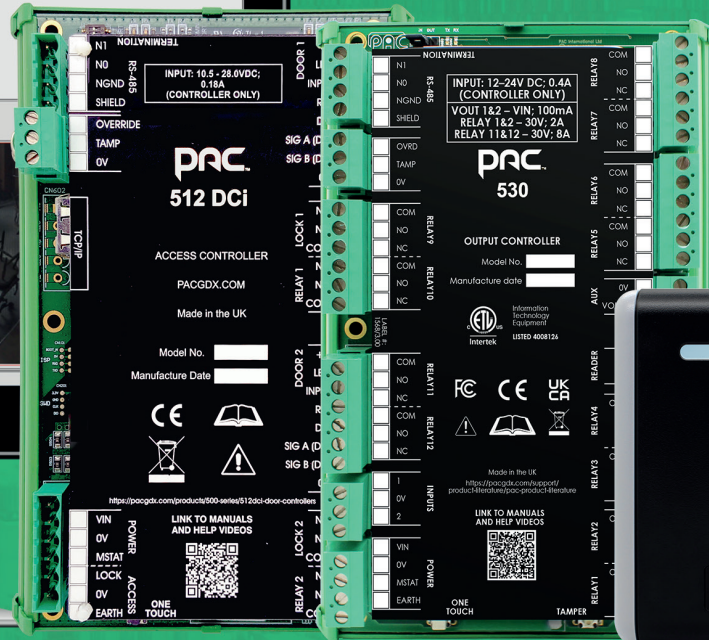
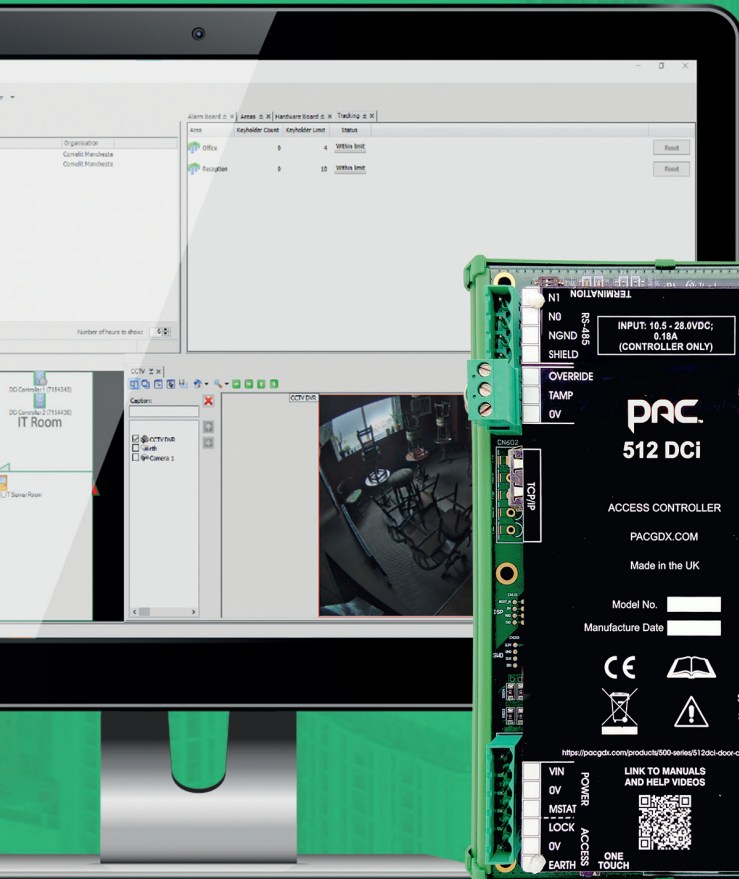




# Product Catalog



# 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.

Comelit has a **global presence and support capability** with 17 branch offices, 6 R&D centers, more than 800 employees and a commercial presence in over 90 countries. We are **With You. Always**, where your success is our success.

**WITH  
YOU  
ALWAYS**

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

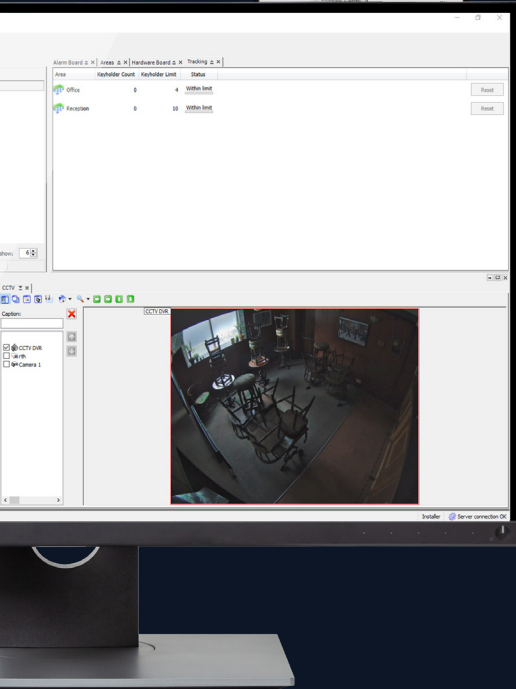
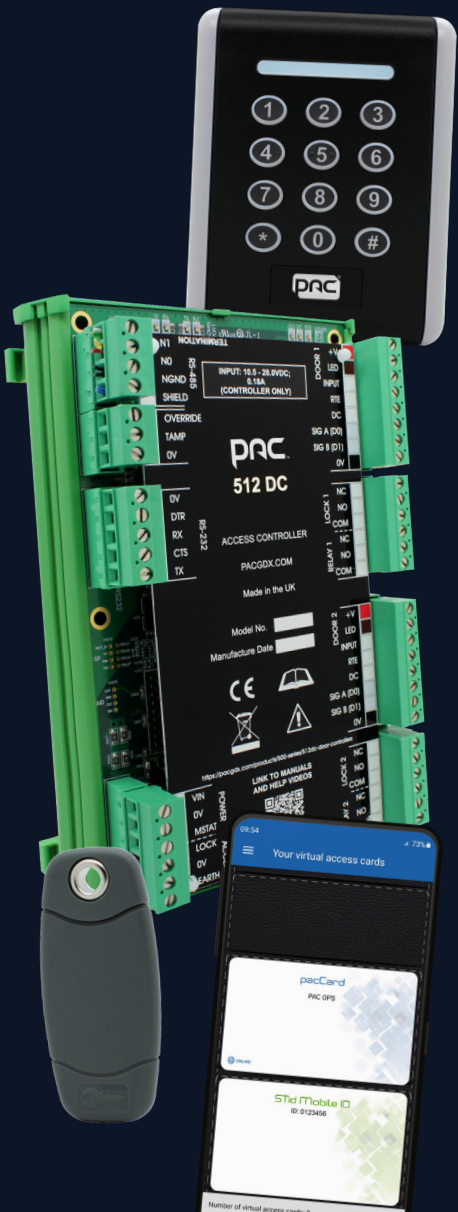
With unbeatable reliability and flexibility, our extensive range provides a multitude of solutions to suit a variety of applications and environments.

## ID DEVICES

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

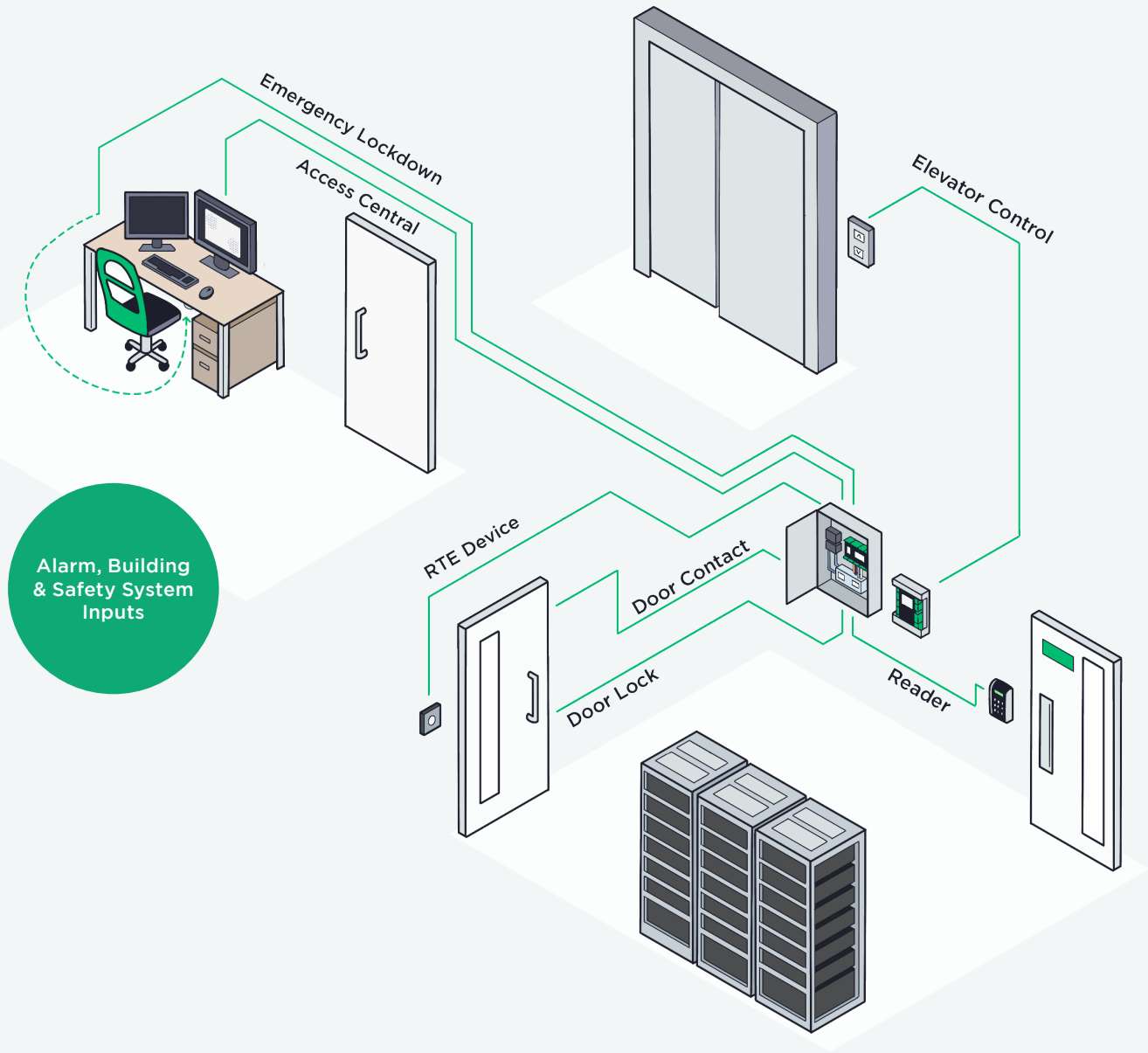
## MANAGEMENT SOFTWARE

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





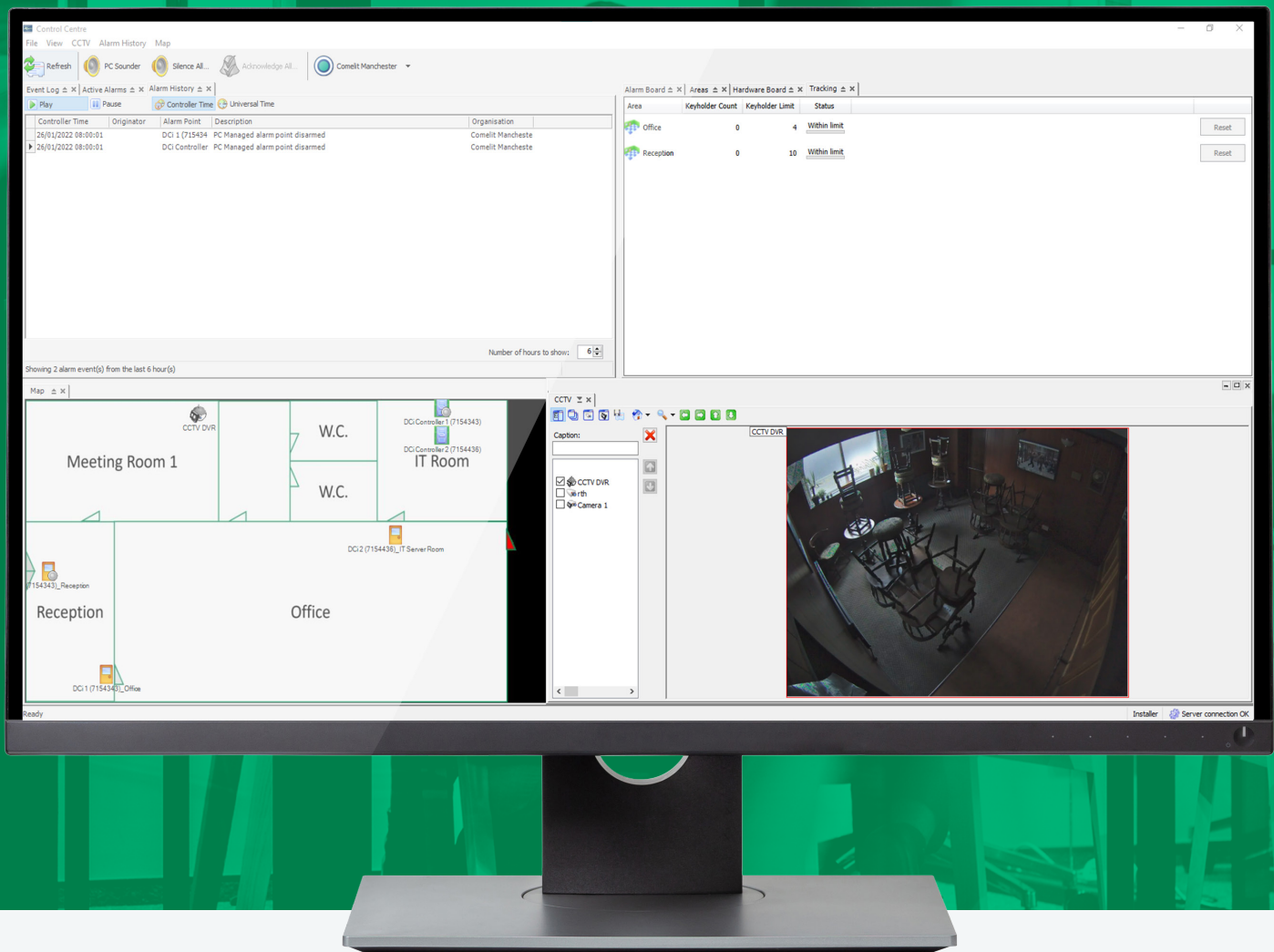
# Adding PAC Value



Alarm, Building  
& Safety System  
Inputs

## 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

### Access Central™ SE Edition

13490/1.00

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



### Access Central™ Professional Edition

13491/1.00

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



**Software downloadable from the [pacgdx.com](http://pacgdx.com) website.**

## FEATURE PACKS

### Active Directory Feature Pack

13494/1.00



### Card Format Feature Pack

13495/1.00



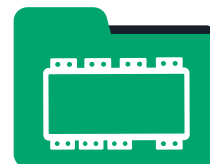
### Browser Interface Feature Pack

13493/1.00



### PAC 212 Support Feature Pack

13492/1.00



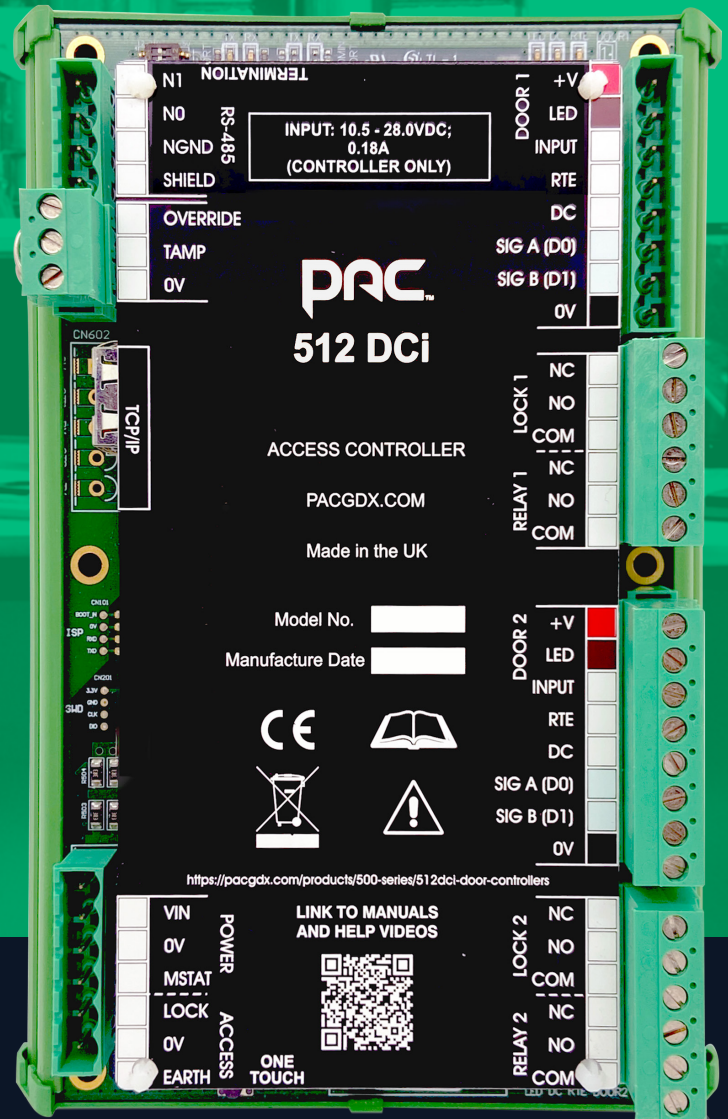
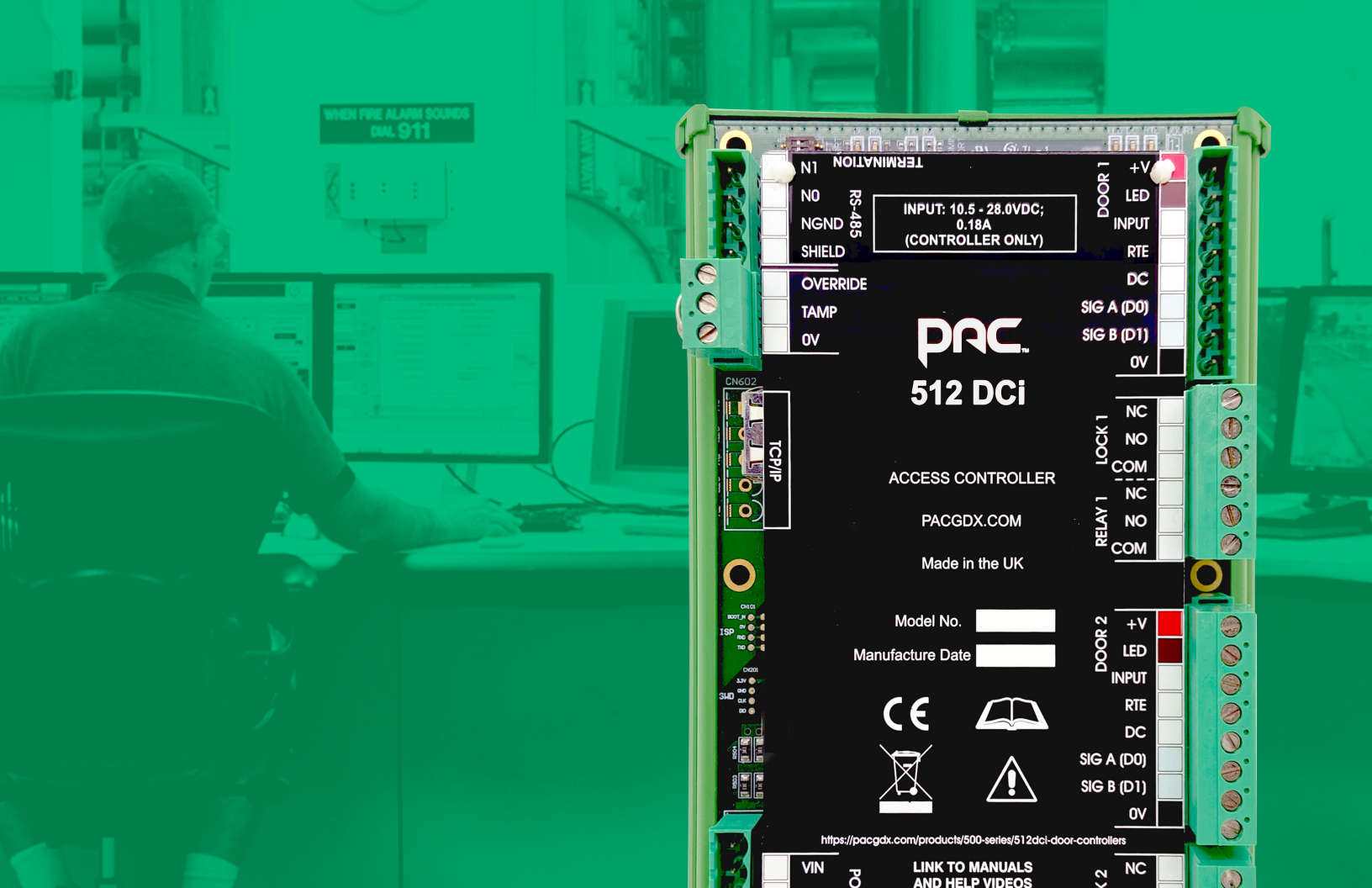
# PAC Access Central™ • Software Features

Features	SE Edition	Professional Edition
<b>FEATURE LICENCE LIMITS</b>		
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
<b>HARDWARE LICENSE LIMITS</b>		
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
<b>COMPATIBILITY FEATURES</b>		
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
<b>USER LICENSE LIMITS</b>		
No. of PAC 500 channels	✓	500
Cardholder records	20000	75000
Operators	25	100
Unused Card Expiry	✓	✓
<b>SYSTEM LICENSE LIMITS</b>		
Org Units	5	100
Client PCs	5	15
Alarm Workstations	2	8
Web Browser Interface	Feature Pack	✓
Active Directory	Feature Pack	Feature Pack





# 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.

# 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



## 512DCi CONTROLLERS

### PAC 512 DCi DIN Mount Access Controller

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

### PAC 512 DC DIN Mount Access controller

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



## CONTROLLER KITS

### PAC 1 Door Access Control Kit

909040232

Contains Boxed PAC 512 DCi Access Controller, 1 PAC OneProx™ GS3 LF Mullion Reader, PAC OneProx™ GS3 MT Administration Kit, Access Central and KEYPAC Keyfobs, pack of 10



### PAC 2-Door Starter Kit Mullion

909038125

Contains Boxed PAC 512 DCi Access Controller, 2 PAC OneProx™ GS3 LF Mullion Reader, PAC OneProx™ GS3 MT Administration Kit, Access Central and KEYPAC Keyfobs, pack of 10



### PAC 2-Door Expansion Kit Mullion

909038126

Contains Boxed PAC 512 DC Access Controller and 2 PAC OneProx™ GS3 LF Mullion Readers



# Controller Accessories

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

## POWER SUPPLY UNITS

### 12V @ 3A Power Supply with Battery Charger

DIN Rail: 909032059

Output 12 V DC at 50W



### 24V @ 3A Power Supply with Battery Charger

DIN Rail: 909032059/1.00

Output 24 V DC at 50W



### 12 or 24V 7A Power Supply with Battery Charger

909022008

Output 12/24 V DC at 99W



## ENCLOSURES

### Four-way lockable DIN rail enclosure

10081

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



### Six-way lockable DIN rail enclosure

10082

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

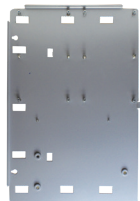


## UPGRADE KITS

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

909021753

Complete with fixings for two PAC 512 series controllers



### Retrofit Kit - Two 512DC

909030909

Complete with two PAC 512 DC Controllers



### Retrofit Kit - 512DCi/512DC

909030908

Complete with PAC 512DCi & PAC 512 DC controllers



## OPTIONS

### UL Fitting Kit

904030370

Designed for UL-294 certified installations to show power status to the enclosure





# Input & Output Controllers

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



Input Relay

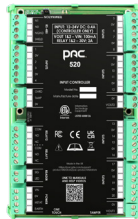


Output Relay

## PAC 520 Input Controller - DIN Mount

909020053

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



## PAC 530 Output Controller - DIN Mount

909020052

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



## 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



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

## PAC OneProx™ GS3 MT Mullion

909020112

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



## PAC OneProx™ GS3 MT Standard

909020113

IP65 rated reader designed to fit with most standard electrical backboxes



## PAC OneProx™ GS3 MT PIN & Prox

909020114

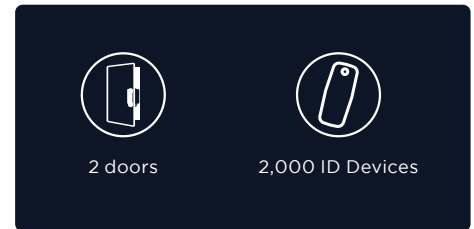
IP65 rated dual authentication reader designed to fit with most standard electrical backboxes



# 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



## PAC OneProx™ GS3 LF Mullion Reader

909020110

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



## PAC OneProx™ GS3 LF Standard Reader

909020111

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



## PAC OneProx™ GS3 LF Vandal Reader - Yellow and Black

909020116

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



## GS3 LF Vandal Reader - Blue & Grey

909022116

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



## PAC OneProx™ GS3 LF Panel Reader - yellow and black

909020117

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



## PAC OneProx™ GS3 LF Panel Reader - blue and grey

909022117

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

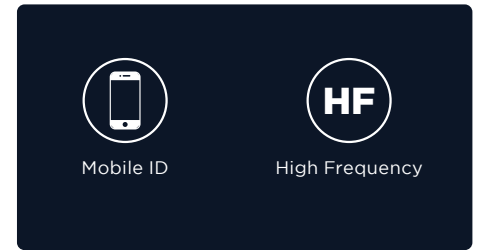




# Architect Range by PAC

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

Security Level: High



## Architect One Blue Reader

7257711

Compact bluetooth reader supporting Smartphone Mobile IDs and PAC Ops credentials



## Architect A Blue Reader

7257713

Standard bluetooth reader supporting smartphone Mobile IDs and PAC Ops credentials



## Blue Secure Mobile ID Device

7257718

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



## Architect One Reader

7257710

Compact HF reader for supporting PAC Ops ID devices.



## Architect A Reader

7257712

Standard HF reader for supporting PAC Ops ID devices.



## 6 identification modes for a unique user experience.

Choose your identification mode to make your access controls both secure and much more instinctive.

### Standard Modes:



#### Card mode

Present your smartphone or wearable to the reader like a conventional access card.



#### Tap Tap mode

Tap tap the smartphone in your pocket to gain access.



#### Slide mode

Your hand becomes your access card.



#### Voice Command

SIRI voice command on your iPhone (iOS) or Apple Watch.

### On Application Modes:



#### Remote mode

Use the "remote button" to conveniently access car parks or other vehicle entrances.



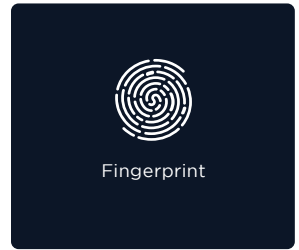
#### Hands-free mode

Simply walk towards the reader without any further action.

# Biometric Readers

The iev biometric range of readers comes complete with a PAC output enabling direct connection to any of the PAC 512 range of controllers and is CPNI certified.

Security Level: High



## Ultimate Rev 4 Biometric Reader and Control Board

7256412

A bundled solution of Ultimate fingerprint reader and Control Board with support for up to 10,000 fingerprint records



## Ultimate Rev 4 Biometric Reader and Control Board

7256413

A bundled solution of Ultimate fingerprint reader and Control Board with support for up to 50,000 fingerprint records



## Micro Rev 4 Biometric Reader and Control Board

7256414

A bundled solution of Micro fingerprint reader and Control Board with support for up to 10,000 fingerprint records



## Micro Rev 4 Biometric Reader and Control Board

7256415

A bundled solution of Micro fingerprint reader and Control Board with support for up to 50,000 fingerprint records



## Ultimate Rev 4 Biometric Reader

7255493

IP rated fingerprint reader with multi-spectral imaging sensor for reliable fingerprint identification



## Micro Rev 4 Biometric Reader

7255495

Compact indoor fingerprint reader with optical imaging sensor for reliable fingerprint identification



## Rev 4 Control Board

7255489

Stores the fingerprint database and authentication requests for the Biometric Readers



## Rev 4 PoE Control Board

7255490

PoE powered controller that stores the fingerprint database and authentication requests for the Biometric Readers



## Rev 4S Compatible Control Board

7255510

Stores the fingerprint database and authentication requests for the Biometric Readers



## Rev 4S Compatible PoE Control Board

7255511

PoE powered controller that stores the fingerprint database and authentication requests for the Biometric Readers



## Ultimate USB Desktop Reader

7255497

Designed for fingerprint registration that is used by the Ultimate Biometric readers



## Micro USB Desktop Reader

7255498

Designed for fingerprint registration that is used by the Micro Biometric readers





# ID Devices

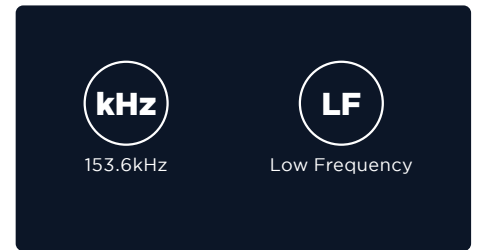
**PAC ID Devices come in a range of forms (key fob, card or mobile) and technology types that enable a variety of user options.**

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

# PAC ID Devices

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

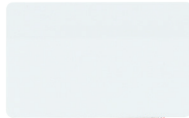
Security Level: Medium



## PAC ISO Card, pack of 10

909021039

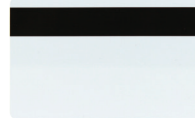
*PAC ISO Proximity Card with support for direct thermal or image transfer printing (K2011B)*



## PAC ISO Card with Magnetic Stripe, not encoded, pack of 10

909021041

*ISO Proximity Card with a magnetic stripe (K2011M)*



## PAC Proximity Key Fob, Pack of 10

909021024

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



## PAC Key Fob (Wiegand), pack of 10

909021023

*Proximity Key Fob, labelled with Wiegand code (D8238)*



## PAC ISO Card (Wiegand), pack of 10

909021034

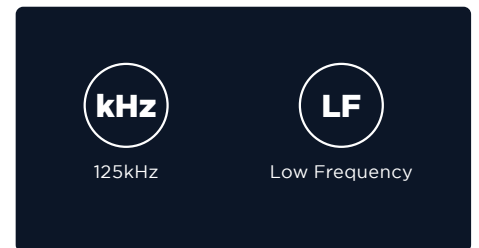
*ISO Proximity Card, labeled with Wiegand code with support for direct thermal or image transfer printing (D8239)*



# KeyPAC ID Devices

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

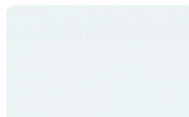
Security Level: Medium



## KeyPAC ISO Card, pack of 10

909021018

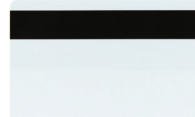
*KeyPAC ISO Proximity Card with support for direct thermal or image transfer printing*



## KeyPAC ISO Card with Magnetic Stripe HI-CO, Pack of 10

909021019

*PAC ISO card with a magnetic stripe*



## KeyPAC Proximity Key Fob, pack of 10

909020256

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



## KeyPAC Key Fob (Wiegand), pack of 10

909020251/2.00

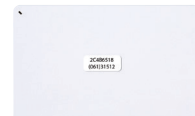
*Fully encapsulated proximity key fob with Wiegand Code. In black ABS plastic, double sealed and ultrasonically welded.*



## KeyPAC ISO Card (Wiegand), pack of 10

909021017/2.00

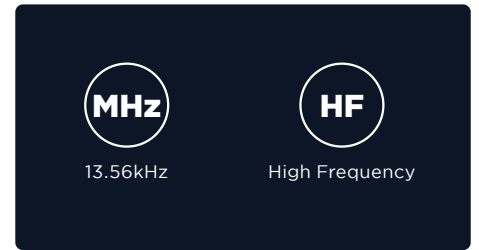
*KeyPAC ISO Proximity Card with Wiegand code. Support for direct thermal or image transfer printing*



# Smart Key Fobs

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

Security Level: High



## PAC Ops™ MIFARE® DESFire® EV1 Key Fob, 4K with clip, pack of 10 - grey

909021103

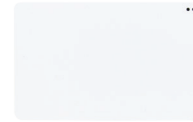
Fully encapsulated in grey ABS plastic, double sealed and ultrasonically welded



## PAC Ops™ MIFARE® DESFire® EV1 Card, 4K, pack of 10

909021106

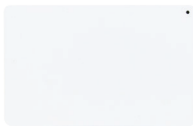
ISO card allowing for direct thermal or image transfer printing



## Standard PAC Ops Lite MIFARE® Card 4 byte none UID, pack of 10

909021105

ISO card allowing for direct thermal or image transfer printing



## Standard PAC Ops Lite MIFARE® Key Fob with clip, pack of 10 - blue

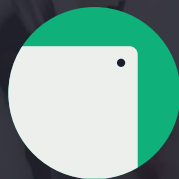
909021104

Clip included. Fully encapsulated in blue ABS plastic, double sealed and ultrasonically welded

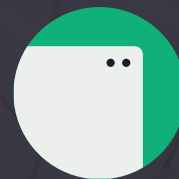


# CARD identification

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





# PAC Options

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

# PAC Options

## PAC GS3 ADMINISTRATION AND INTERFACE KITS

### Line Driver - PAC 500 Series

909020866

Line driver used for connecting a PAC 512 Door Controller to the PC operating Access Central with a USB Administration Kit



### Line Driver - PAC 2200 Series

909020820

Line driver used for connecting a K2000-series to the PC operating Access Central with a USB Administration Kit



### PAC GS3-MT Admin kit

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



## BIOMETRIC READER OPTIONS

### Surface Mount Kit for Ultimate Readers

40364

Allows to be surface mounted onto the fabric of the building. Reader not included



### ievo Flush Mount Kit for Ultimate Readers

40365

Allows to be flush mounted on to the fabric of the building  
Note: Reader not included



### Relay module for LED control

40368

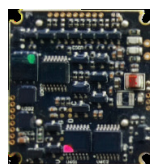
Allows the PAC 512 controllers to control the LED on the ievo range of biometric readers



### Reader Connector for ievo Control Board

40365/1.00

Card reader module to be connected to an ievo control board





**WITH  
YOU  
ALWAYS**

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:** 800-414-3038

**Email:** [pac.sales@comelitusa.com](mailto: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

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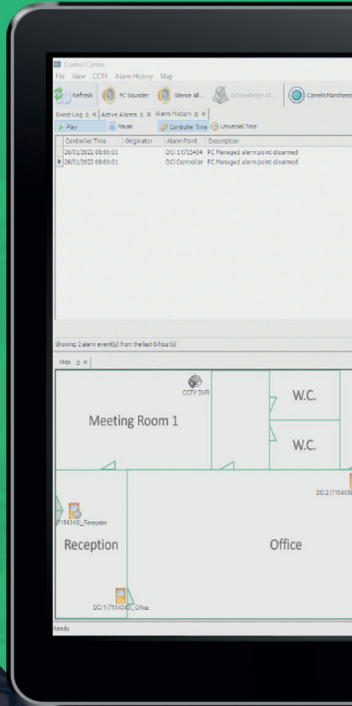
**Email:** [pac.tech@comelitusa.com](mailto:pac.tech@comelitusa.com)

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.





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