

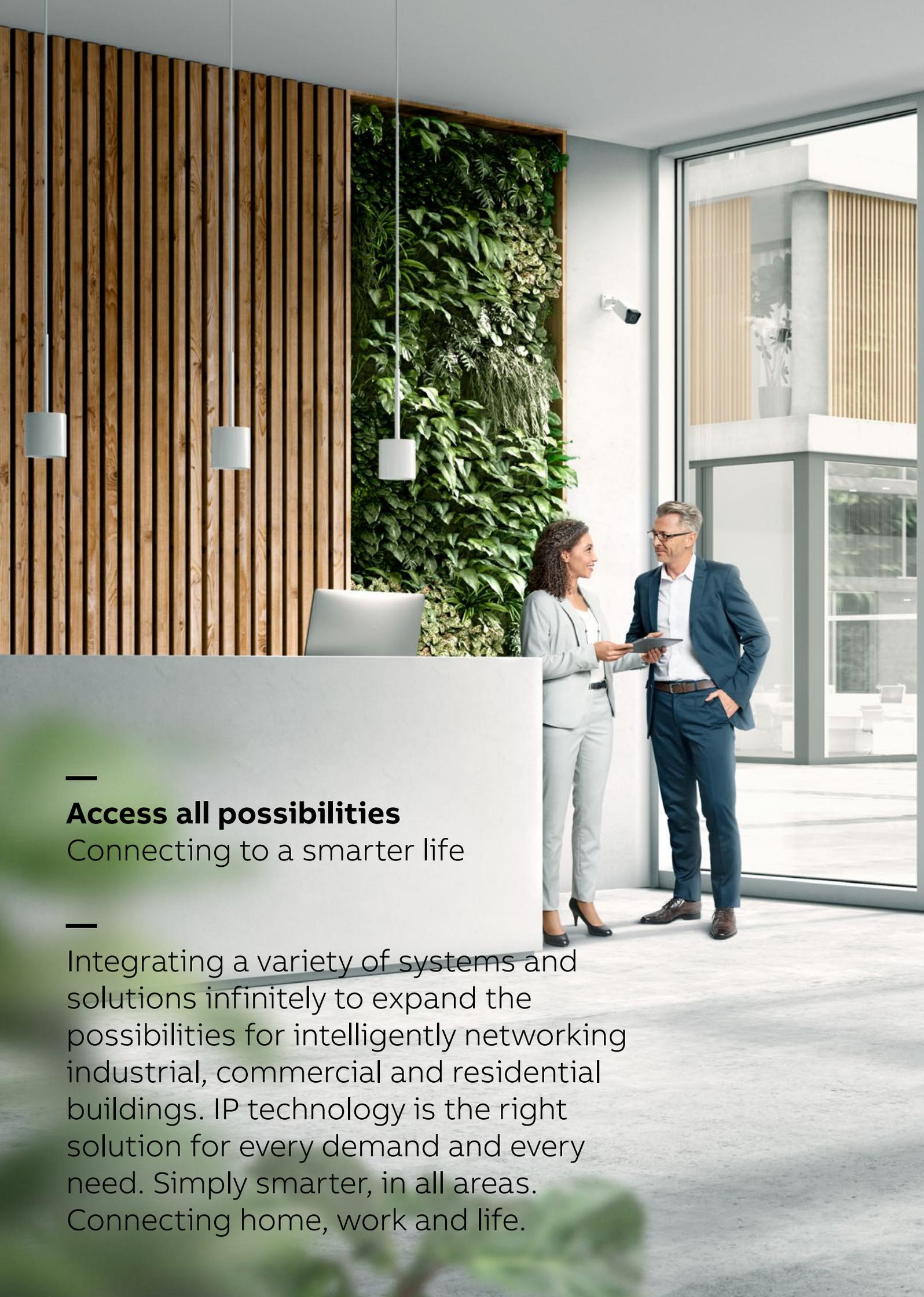


# Access all possibilities

Connecting to a smarter life of door entry communication, access control and home and building automation.



- ABB-Welcome IP
- ABB-AccessControl



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## **Access all possibilities**

Connecting to a smarter life

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Integrating a variety of systems and solutions infinitely to expand the possibilities for intelligently networking industrial, commercial and residential buildings. IP technology is the right solution for every demand and every need. Simply smarter, in all areas. Connecting home, work and life.



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**The IP connectivity provides you with a comfortable life and smarter choice, regardless of the size and distance. The connectivity brings all systems together to create a smartIP ecosystem for a holistic building automation solution in commercial, public and residential buildings.**

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# Table of contents

**006–007**      **All under control**

**008–009**      **Benefits**

## SYSTEMS

**012–015**      **ABB-Welcome IP**

**016–019**      **ABB-AccessControl**

## MANAGEMENT

**022–025**      **IP touch**

**026–027**      **App & Cloud**

**028–031**      **Property Management**

**032–033**      **IP Guard**

**034–043**      **Applications**

**044–074**      **Catalogue**

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# All under control

## Systems fully connected

Door communication, access control and home and building automation. ABB offers a complete range of smart products with all possibilities at your fingertips.

### **An open, closed system**

Not only Smarter Devices from ABB can be seamlessly integrated in the entire system via IP network technology. Open programming interfaces and the included software development kit also make it possible to integrate third-party applications such as property management or messaging systems in the system environment. At the same time, centralized and decentralized control and installation options protect your system from unauthorized access.

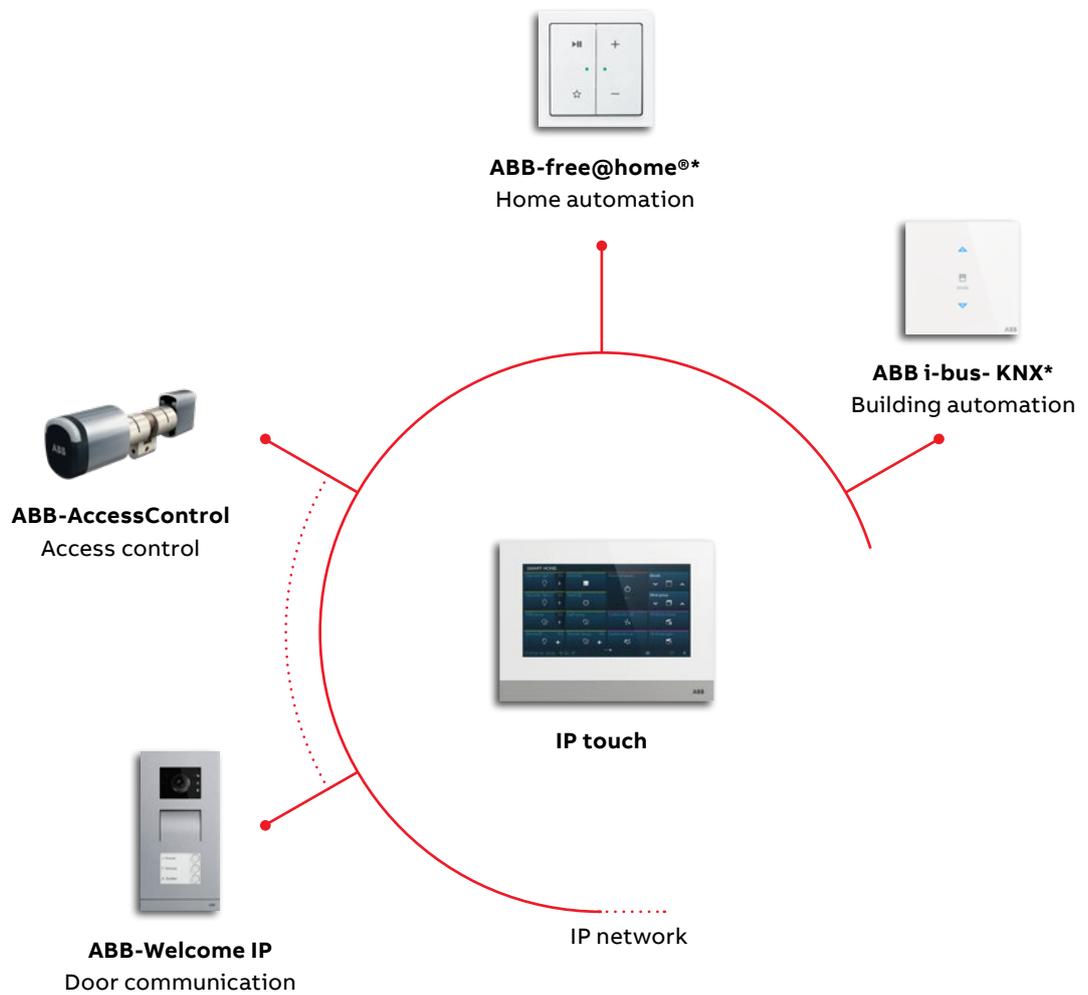
### **Applications**

- Apartment buildings
- Apartment complexes
- Detached houses
- Office buildings
- Commercial properties
- Multifunctional buildings

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Customized solutions for complete building automation – in commercial, public, and privately used buildings.

No matter what the challenge of your building is, door communication, access control and home and building automation. Has never been easier to control and monitor. A more than smart connection gives access to a wide range of possibilities and products within the well-known range of ABB.



—  
The IP connectivity provides you with a customized and smarter choice, regardless of the size and distance. This makes planning and installation for projects of every size far simpler.

#### Full integration of all systems

All products feature a sophisticated design and a high level of functionality. ABB-AccessControl and ABB-Welcome IP now also feature an IP-based flexibility, that has a clear impact on the installation, operation, and maintenance of the smart home and building devices. They are therefore suitable for even the most stringent requirements as well as for deployment in buildings of all kinds.

#### smartIP eco system

The platform does away with restrictions on the number of devices and range, making planning and installation for projects of every size far simpler.

# Ease of mind with modular systems

## Full control at your fingertips



### Comfort

ABB always takes pride in user experience and innovates common network technology to create a totally smarter solution that can perfectly meet your every need. We believe comfort, smart living and working are the original of comfort life.

#### Comforting to see

Minimalistic, aesthetic design with high-end material for both outdoors and indoors, the big screen with high resolution images and videos that please your eyes.

#### Comfort to listen

Full-duplex voice transmission allows a maximum of voice quality. Default and customizable ringtones are supported for better recognition.

#### Comforting to feel

The available app enables full remote control, status review and event notification at home or away. When technology overcomes distance, the feeling of home and building is pure pleasure.

#### Comforting to control

The integrated panel enables local control of door communication, access control and Building Automation and more.



### Security

To make you safer and enjoy your own time, ABB combines all the security functions that keep you all day long with peace of mind. With powerful anti-hacker technology installed, there is no need to worry about cyber security issues.

#### Security from duplication prevention

The high security card and reader prevents any duplicates of the card information

#### Security from network isolation

The in-built gateway of the indoor panel and Smart Access Point makes the door communication, access control and home and building automation as a dedicated network system.

#### Cyber security and data privacy

The cyber security ensures the encrypted data transmission via internet.

#### Security from user authentication

Different user groups or different authorities can manage or provide the legitimate access to open any locks at any time you like.





## Simplicity

The real genius of this highly sophisticated system, however, is found in its ease-of-use. It's easy to set up users, search and play back recorded video, configure alarms, back up video, footage recordings and more.

### Easy commission

Quickly create the building structure and scan the QR code of a device to place into the desired location, upload the information into devices. 1-2-3, Done!

### Easy installation

Series of installation box for efficient and effective installation, plus wireless and PoE connection make the system really easy to install.

### Easy setting

The parameter setting and interaction are down to its intuitive browser-free management software.



## Flexibility

ABB's IP innovation provides flexible solutions that can satisfy your own living habit and style. No matter the kind of building, ABB is your trustworthy partner.

### Flexible by scalability

Thanks to the IP platform, it is the ideal solution in residential home, community, commercial building, school, hospitals, without limitation of the distance and the capacity.

### Flexible by modularity

Outdoor station, digital cylinder, indoor stations are integrated in a modular concept.

### Flexible by centralization and decentralization

Local connection through home network or remote connection through MyBuildings portal powered by ABB Ability allow access from everywhere.



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**FUNCTIONS**

A protected building and its environment are an essential part of feeling good and being happy. Our systems are designed with an elegant and fashionable outlook that brings good user experience. At the same time, innovative functionality that guarantees more security and comfort.



# Door communication

## ABB-Welcome IP

The outdoor station series can be used in single homes to high-rises, as well as office buildings, industrial properties, hotels and hospitals.

—  
01 Video Pushbutton  
outdoor station,  
Stainless steel

—  
02 Video Keypad  
outdoor station,  
Stainless steel

—  
03 Video outdoor  
station, touch 5",  
Stainless steel

—  
04 Video Barbutton  
outdoor station,  
Stainless steel

ABB-Welcome IP door communication provides you with a highly sophisticated system with HD video communication from outdoor to indoor and indoor to indoor. Distance is now only a matter of IP connectivity, what makes planning and commissioning the simplest matter. And the users will be happy due to a unique and intuitive user interface in all devices. The well-known remote access of the main functionality is ensured by the My-Buildings portal powered by ABB Ability.

- HD camera with infra-red ensures clear images even at night time
- Rustproof, waterproof IP54, vandal proof IK 07
- Integrated status indicator for door status and induction loop for hearing aid
- Clean design with thin installation in both flush and surface mounted
- Access control integration with keypad, DesFire card reader
- Brushed stainless steel and white matt aluminum optional





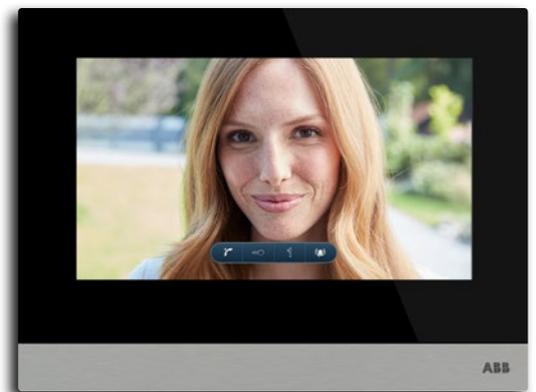


**HD quality in multi-communication channel**

Thanks to IP technology, the residents of the home and building are always accessible to visitors with high definition images transmitted from multi-channel bandwidth. It is much more colorful, brighter, clearer and no interference in communication.

**One screen, all included**

For IP Touch 5 inch outdoor station, different calling types are available, called by intuitively scrolling the directory or room numbers programmable locally or by management software.



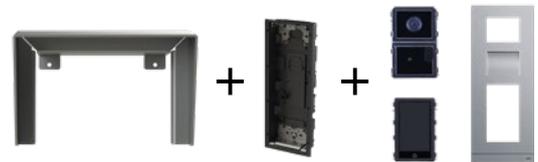
**Installation now easier**

Full range of installation boxes are offered to ensure the quality installation in different situations regardless of concrete walls or cavity walls. The flat flush mounted (7mm) and flat surface mounted (25mm) are both available, both with a very attractive design.

**From minimal modules to maximum possibilities**

The “snap-in” modular design enables the individual adaption to the system’s size, design, functionalities and budget to the respective requirements. Expansion and changes are also possible at any time by easily changing the modules.

Minimized articles of rain hood, same product with same column of outdoor stations variants, either 1, 2, 3, 4 or 5 modules combination.



—  
01 Display  
For messages, code  
and building number

—  
02 Bar pushbutton  
3/6 or 4/8 pushbutton for  
visitor to press for call

—  
03 Round pushbutton  
1/2/3 pushbutton for  
visitor to press for calling

—  
04 Round pushbutton  
1/2/3 pushbutton for  
visitor to press for calling

—  
05 Round pushbutton  
1/2/3 pushbutton for  
visitor to press for calling

—  
06 Keypad with  
alphanumeric input  
Digital inputting  
module for keypad  
outdoor station

—  
07 Big display module  
With integrated  
transponder and keypad

—  
08 A/V module with  
720P camera  
Audio & Video module



# Access control

## ABB-AccessControl

Access control via digital locking cylinders has long been the system of choice in both private and commercial daily life. ABB-AccessControl ensures easy scalability, even for large-scale projects.

—  
01 Half-cylinder lock with digital knob Swiss round

—  
02 Cylinder lock with reader digital knob and thumb-turn Swiss round

—  
03 Half-cylinder lock with digital knob, European

—  
04 Cylinder lock with reader digital knob and thumb-turn, European

—  
05 ANSI Mortice cylinder lock, US

—  
06 El. Cylinder 30/00 N SC., Scandinavian

—  
07 ANSI RIM cylinder lock, US

ABB-AccessControl comes along with maximum encryption transmission to ensure all cyber security demands. It can be planned as standalone solution or can be easily part of a bigger Building system due to smart connectivity via IP. ABB-AccessControl as professional solution supports remote access and management possibilities that makes people's lives easier, thus for operators and end-users. The MyBuildingportal powered by ABB Ability provides the right and secure remote service.

- Different lengths to match different door thickness
- Fits EU, US, SWISS, standard with door thickness
- In-built batteries
- Visual and acoustic indication
- Emergency unlock (only for administrator)
- Key fob with various colors
- Remote firmware upgrade
- IP55



01



02



03



04



05



06



07





—  
Access control is in every office scenario; a key point for the security in public and non-public areas.

### Quick and easy retrofit to traditional mechanical cylinder

Whatever your access control needs, electronic wireless cylinders provide an ultra-modern solution that will compliment any type of door wherever they are used.

01 → 02 → 03

**Loosen**  
Loosen screw  
& remove  
old cylinder

**Replace**  
Insert electrical  
cylinder

**Fasten**  
Fasten screw & fasten  
new cylinder

### Maximum security by sophisticated encrypted communication

The DESfire EV1 key fob with sophisticated encryption technology makes duplication impossible. Plus the real-time cancellation to a lost or stolen key fob from management software, the door is secured all the time.

In addition, it is the encrypted radio frequency communication to transfer information from cylinder to Smart Access Point. Both repeater and IP-BLE gateway are also equipped with the same encryption mechanism.



**Triple reminder guarantees on-time battery replacement**

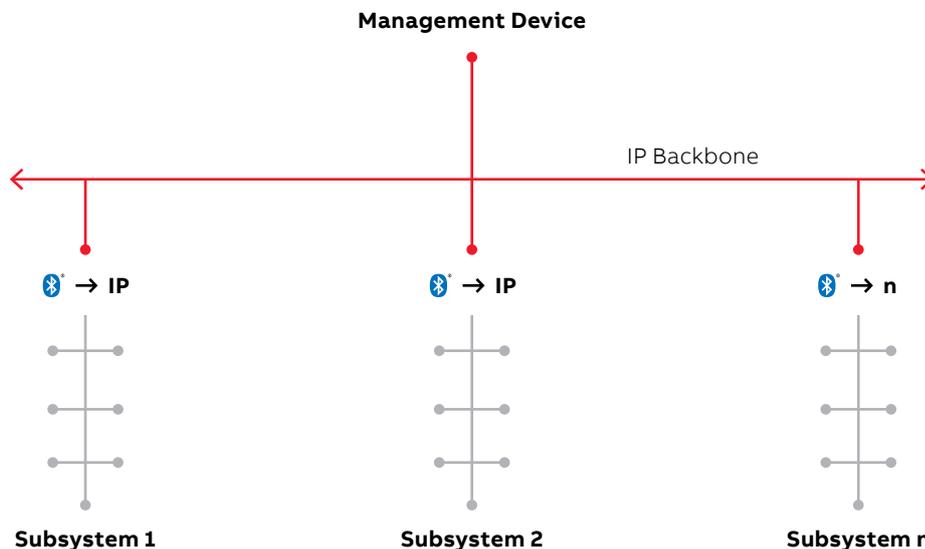
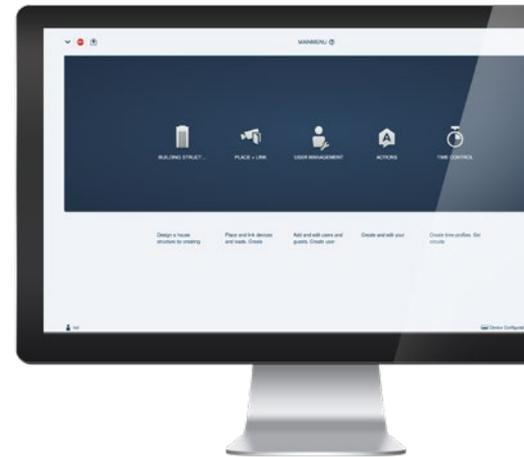
Despite the latest BLE low energy consumption technology, the battery can run with low power for quite a long period of time. When the reminder time has come with its self-counting algorithm, there will be visual indication from flash light every time swiping the card, in addition, the App will also receive the notification to change the battery. Finally, the email will be altered with the same information. With the help of local device App and email placement reminder, no need to worry about low battery power of your smart cylinder.

**User-friendly management system with intuitive web design**

To intuitively visualize and manage the interlink between different user groups and door groups, is the key job of digital access control system. Administrator can quickly and easily execute all access plan updates on the system such as instant changes to user access privileges and can control the entire property. Meanwhile, administrator also can handle users' specific access rights to specific openings by setting the right mode from the choices of options.

**Scalable to big project by IP-BLE gateway**

ABB-AccessControl is not restricted with wireless transmission, which is superb in short distance projects. The versatile system can flexibly scale up thanks to the IP-BLE gateway. No limits of distance and capacity to decentralize each IP-BLE gateway to manage up to 16 cylinders. This makes the new and big construction projects as easy as small projects to plan and to install.



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**CONTROL**

IP technology is dedicated to create a more intelligent community that can realize the unlimited connection and control to the devices and third-party platform. It makes every home and building become a comfortable and safe place.





# ABB-Welcome IP touch

The IP touch 7 and 10 control panels are IP-based and provide a far greater number of options for building control.

— 01 IP touch 7,  
White glass

— 02 IP touch 10,  
Black glass

Powerful and beautiful. The new ABB's IP touch has the most two built-to-last colors: white and black glossy glass are available. The end strips are easy to change with varieties of material and colors optional. The integration with home and building automation makes it the best universal visualization panel in residential and non-residential areas.

- With high resolution display
- Intuitive GUI on sliding screen
- Selection of installation box options ensure easy installation on all kind of walls
- Induction loop for hearing aid
- Only 7.8 mm depth when flush mounted
- Both LAN and Wifi version to connect to home network



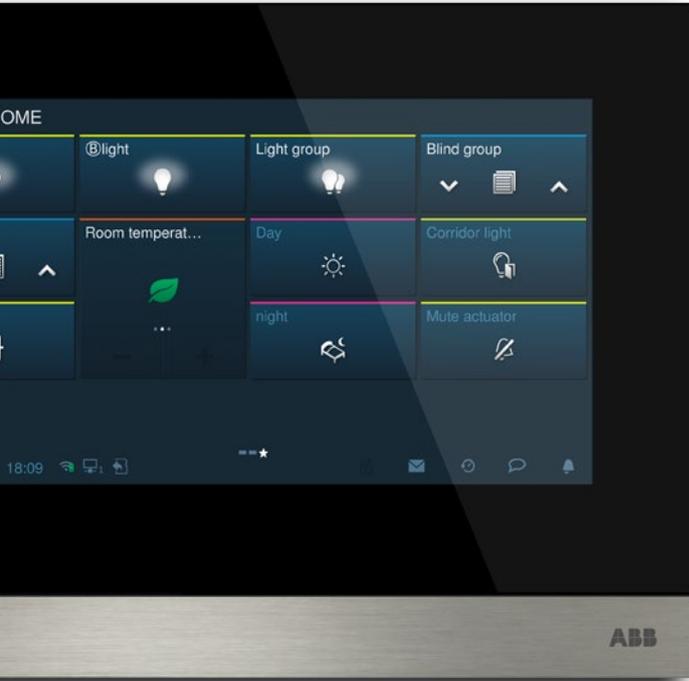
— 01



— 02



22mm for 7"



**Home and building dashboard**

Main menu with easy settings for door communication, video surveillance and home automation. The new ABB's IP Touch ensures that comprehensive functions in a room or entire building are centrally visualized, easy and intuitively operated in a comfortable and efficient manner.

One device, all kinds of possibilities. Reviewing of the snapshot image or recorded video when away from home, always feel confidence in knowing what is going on. It is also very easy when hosting a party to leave an audio message or set the automatic unlock time range.

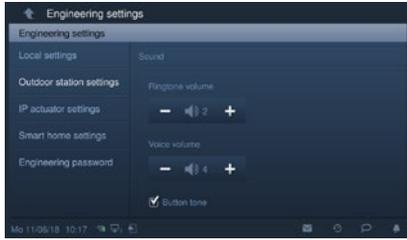
**Look thin, and act changeable**

Extra thin passe-partout is really trend setting. Front frameless genuine glass in black and white plus easy changeable end strip with different color. Extremely slim in both flush and surface mounted situations represents this new series of indoor panels, in a combination of art and science.

01



- 01 Dashboard
- 02 Visualization tool
- 03 App connection
- 04 App
- 05 External intercom
- 06 Internal intercom



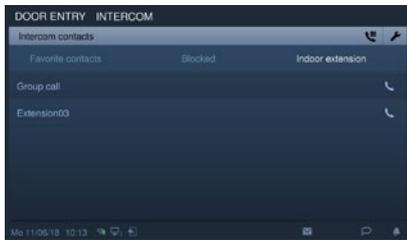
02



03



04



05



06



**Visualizations tool**

As the comfort interface for advanced setting when connecting the outdoor station. The installer can easily set the parameters using IP touch with comfort.

**Easy App connection**

In-built IPGW allows direct App integration, simply input MyABB account in the screen to activate the function.

**Versatile intercom**

- External intercom
- call other apartment
  - call outdoor station
  - call guard unit

Internal intercom possible

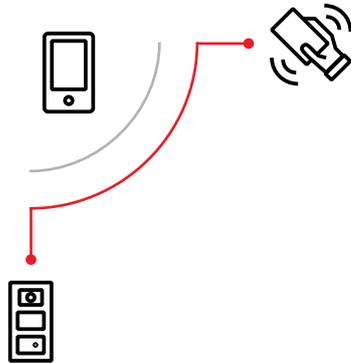
- call all
- dedicated call
- call App

# App & Cloud

## Local and remote management

Every area of the house can be remotely controlled via the App. This helps the users to get access to every system from everywhere.

The App is a cloud based integrated platform working with both iOS and Android. It allows you to use your smart phone or tablet managing the calls from IP Touch 7" or 10", digital cylinder and surveillance locally or remotely. You can also set up your customized App with as many steps as you wish. Thanks to MyBuildings portal, the remote connection is totally automated and managed with the highest level of security and data privacy. No special settings need to be made on the internet router for this solution.



### Access control

- Local and remote unlock door
- Shows the unlock time in office mode
- Guest account creation and sharing

### Door entry communication

- Local and remote unlock, light switching, mute call guard
- In-call volume and ringtone adjustment possible
- Internal intercom to App
- SOS
- Control the load on the associated actuator





Welcome App offers a lot of functions and applications depending on your daily habit. Most frequently used functions can be categorized in your easily recognizable place for comfort access and use.



#### **One App satisfies all the system combinations**

Welcome App is a bottom up integrated platform. It can not only work separately with door communication, access control and video surveillance, but also works with two or all systems together. What is more, the App will be compatible to 2 wire analog Welcome system, the icons and interface will be automatically adapted to the system for you to use.



#### **Accessible anytime, anywhere**

With ABB MyBuilding Portal you can always connect with your home or building anytime around the world. Welcome App makes it possible to identify and welcome the visitor, viewing the snapshot or real-time video stream not only at home, but also out of home in any place.



#### **Configuration mode**

Welcome App is not only for the end user, but also for the installer. After entering the configuration mode into the App, the QR code scanning can be utilized to create the building and floor structure efficiently that will help to easily visualize the project. Comfortable, easy and efficient commissioning to set up smartIP into a new benchmark for IP system.



#### **History log review**

Keep track of visitors and guests going in and out of the building. Dedicated door with time-stamp and date of use, stored locally and in the cloud. Full control at your hands. That is your unique Welcome App.

# Property Management and Service

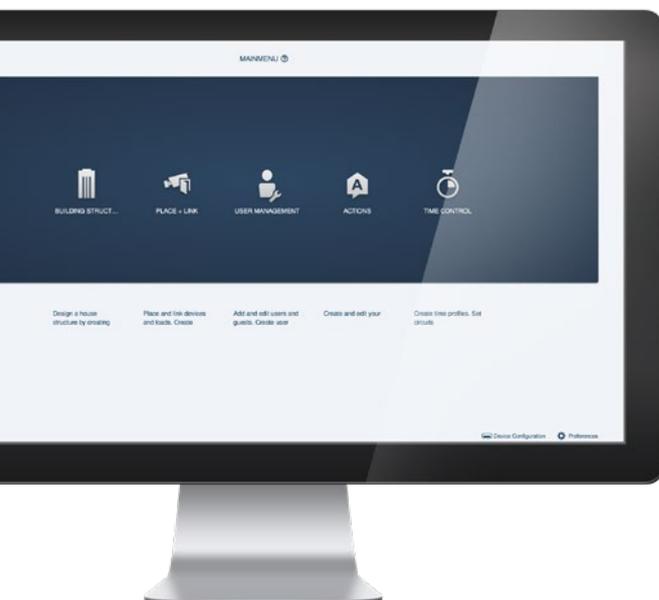
## One software for all applications

The system can be equipped with guard unit in the property management rooms for easier communication indoor and outdoor stations.

### Smart Management Software

The versatile system is also equipped with property management software, either with a web based version running in the Smart Access Point for small to medium size projects or PC software for big projects which can support above 500 devices. This makes maximum security and convenience possible for homes and buildings.

- Intuitive GUI with drag and drop features makes the configuration easy and efficient
- Flexible offering with standard version running server in the Smart Access Point (support devices  $\leq 500$ ) or premium version running the server in PC (no limitation of devices managed)
- Support different versions of web-browser
- API for unlock integration with 3rd party system
- SOS message sending to all devices in case of emergency
- Easy to configure the App for digital cylinder system or CCTV system



The Smart Management Software guides the users easily through the setup of the applications







#### Easy management

Manage all your users in one place with just a few simple clicks. You have the opportunity to individually determine who enters when and where, who has the right to view which camera. And if you want to change that just log-in, make your changes and it's done.



#### Manage all connected devices

You can manage all connected devices, configure parameters for each device locally or remotely. E.g. to send the personalized Welcome message to the dedicated touch outdoor stations, or to push the floor plan during commissioning to all the indoor stations. You can also manage and upgrade firmware of connected devices, whose latest firmware are pushed from the internet.

**Easy commissioning**

Illustrate very clearly with graphical building and vivid device icons, just 3 steps for the commissioning. First, set up floor plan with its floors and room; second, assign each connected device in the existing floor plan; finally, combine different devices according to your requirements.

**Enhanced security with record event log and receive notification and alert**

Keep track of visitors and guests going in and out of the building; a photo and time-stamp will capture and log all door access events locally and in cloud-based storage, where you can conveniently access the event log at any given time.

**Action among different systems**

You can customize the “When-then” relationships between different systems. This allows rules to be created, such as implementing an automatic shading function: “if the door is released, activate camera to make a snapshot”. Or you can create an automatic notification.

**Building-wide messaging**

Communicate with residents easily by utilizing the building-wide messaging capability. Or send a management message to the indoor stations with scope easily determined by the property managers. Either to all or certain parts of the building or users.



# IP Guard Unit for concierges

## Supports 24/7 building security

ABB highly regards the value of the guard unit in terms of its contemporary design and functionality; as well as modern touch display for a convenient user experience.

The guard unit with desktop design provides access to various services using the intuitive icon menu on the touch screen. Communication is possible with IP touch panel, outdoor station and other guard units.

- One of the best modern and high end aesthetic designs
- Metal desktop with brushed aluminum for device body
- Capacitive 7" multi-touch screen
- High resolution 1024 x 600
- Intuitive GUI for easy scrolling operation
- Hands-free and handset communication to combine privacy and ease
- Unlock all doors or dedicated doors in case of emergency
- Intercom with residents or the other guard
- Sending and receiving messages from indoor stations and Apps

01 IP Guard Unit  
for concierges



01





#### **Easy directory management**

Considering the situation that requires hundreds or even thousands of names in the IP guard unit, it would be a terrible situation. Now thanks to the management software, the building directory list can be created and imported from the PC, which is more natural, comfortable and efficient.



#### **Day and night interception**

Don't worry the moment when the security guard is off work during the night. The Welcome IP guard unit now supports the manual or automated day mode and night mode switching with configurable time ranges determined by the guard that will improve the building security all day long.

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# Applications

## Multiple connections and possibilities

The IP connectivity brings all systems together to create a smartIP ecosystem for a holistic building automation solution in commercial, public or residential buildings.

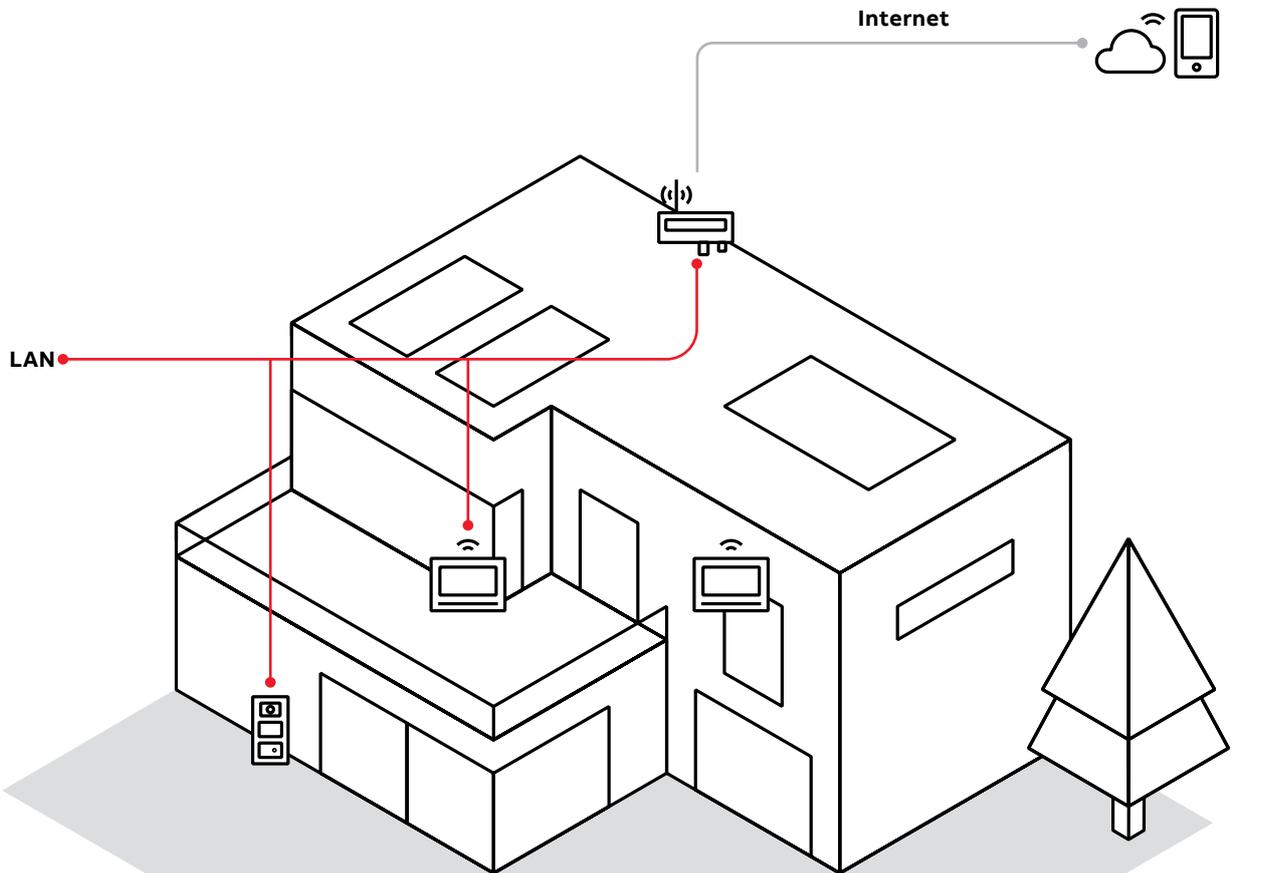




# Applications

## Door communication

The door communication ABB-Welcome IP breaks the limitation of distance and apartment quantity. Property management can monitor all the entrances and welcome the guests. At the same time, owners can use the App to open the door remotely.



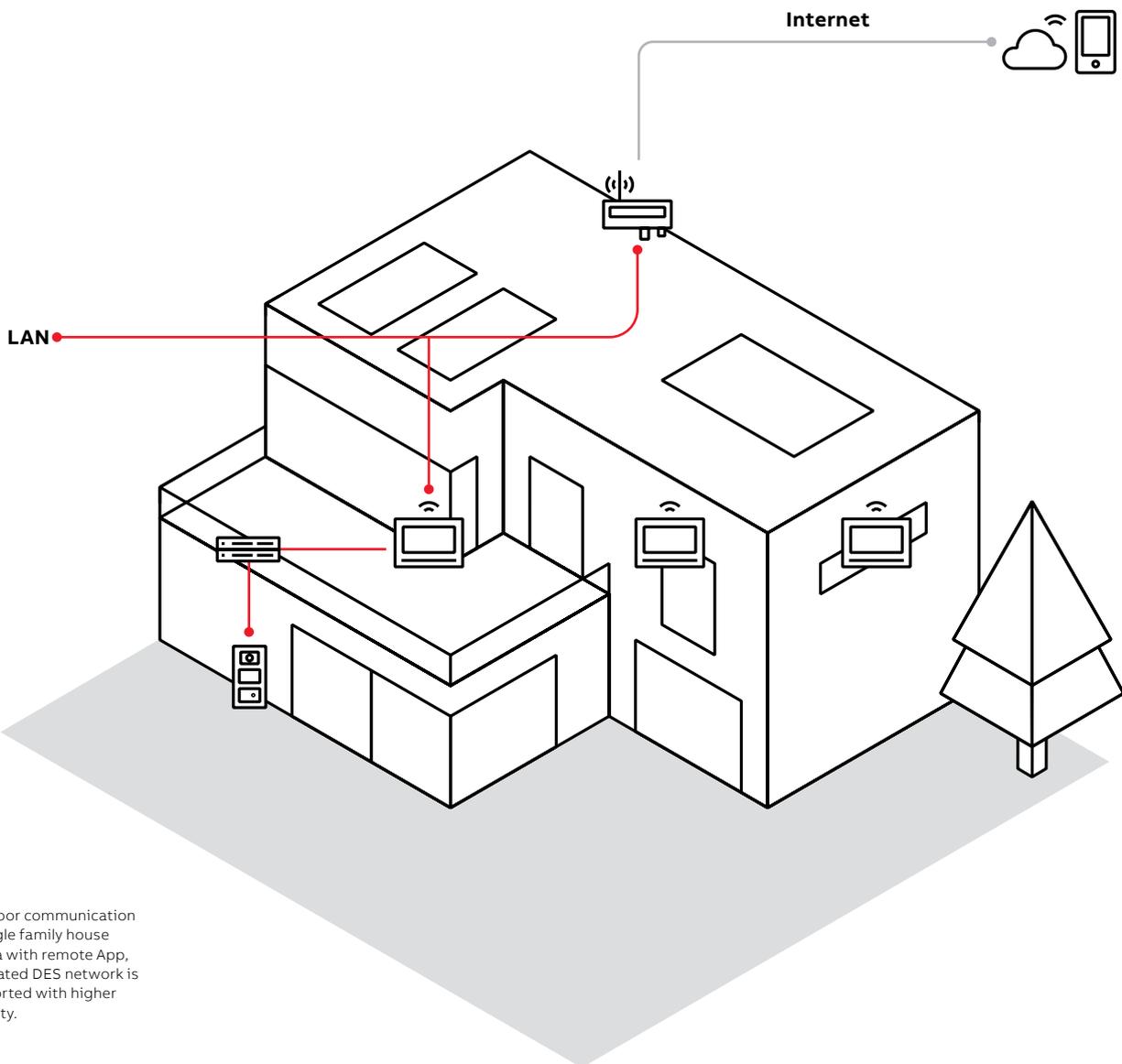
The door communication in single family house or villa with remote App, all the devices are linked to the same home network.

- Router
- Smart Access Point
- IP Touch
- Smart Management Software
- Cloud
- PoE Switch
- Smart Cylinder
- IP Camera
- Outdoor station
- Mobile

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# Applications

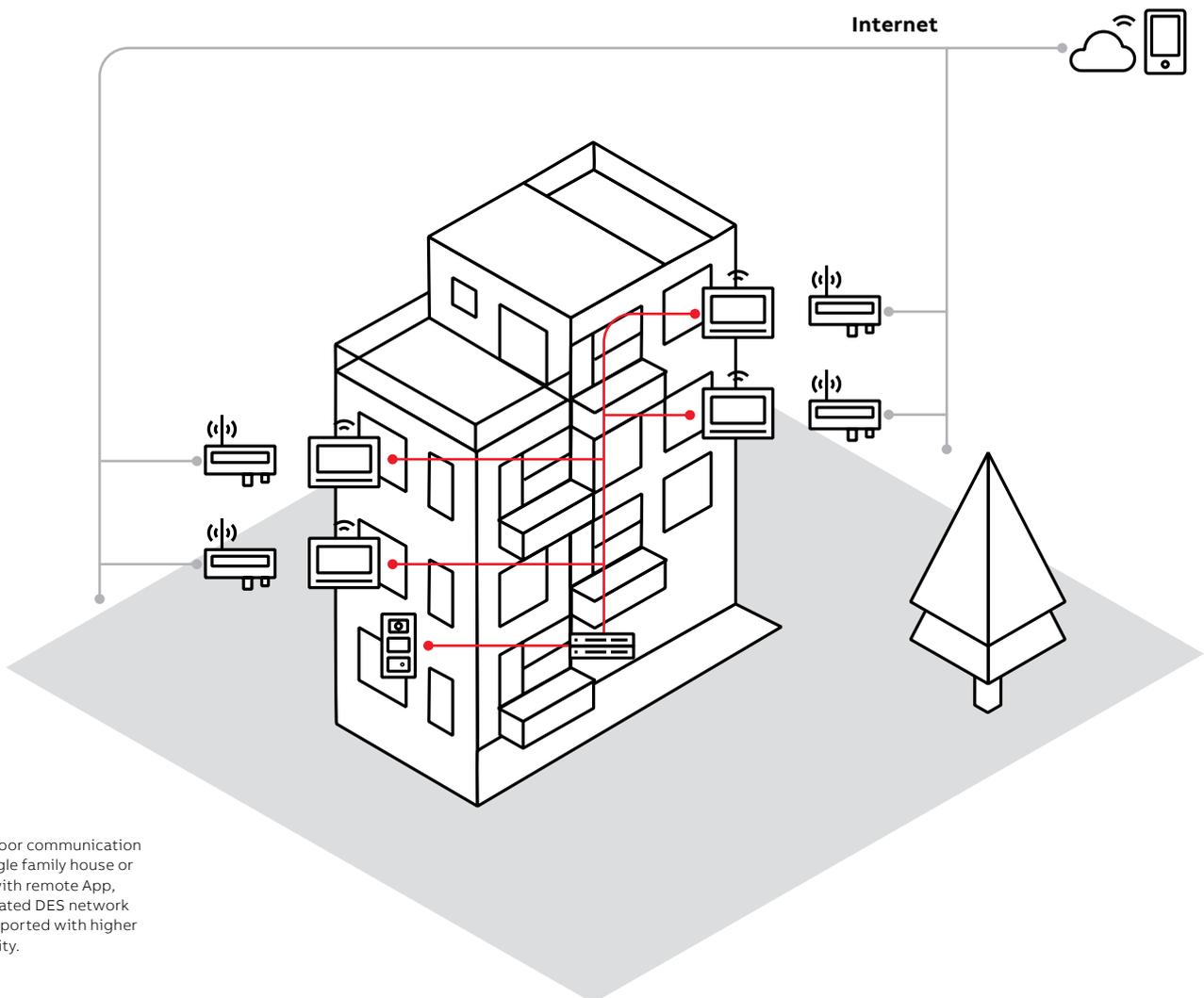
## Door communication



—  
The door communication in single family house or villa with remote App, dedicated DES network is supported with higher security.

# Applications

## Door communication

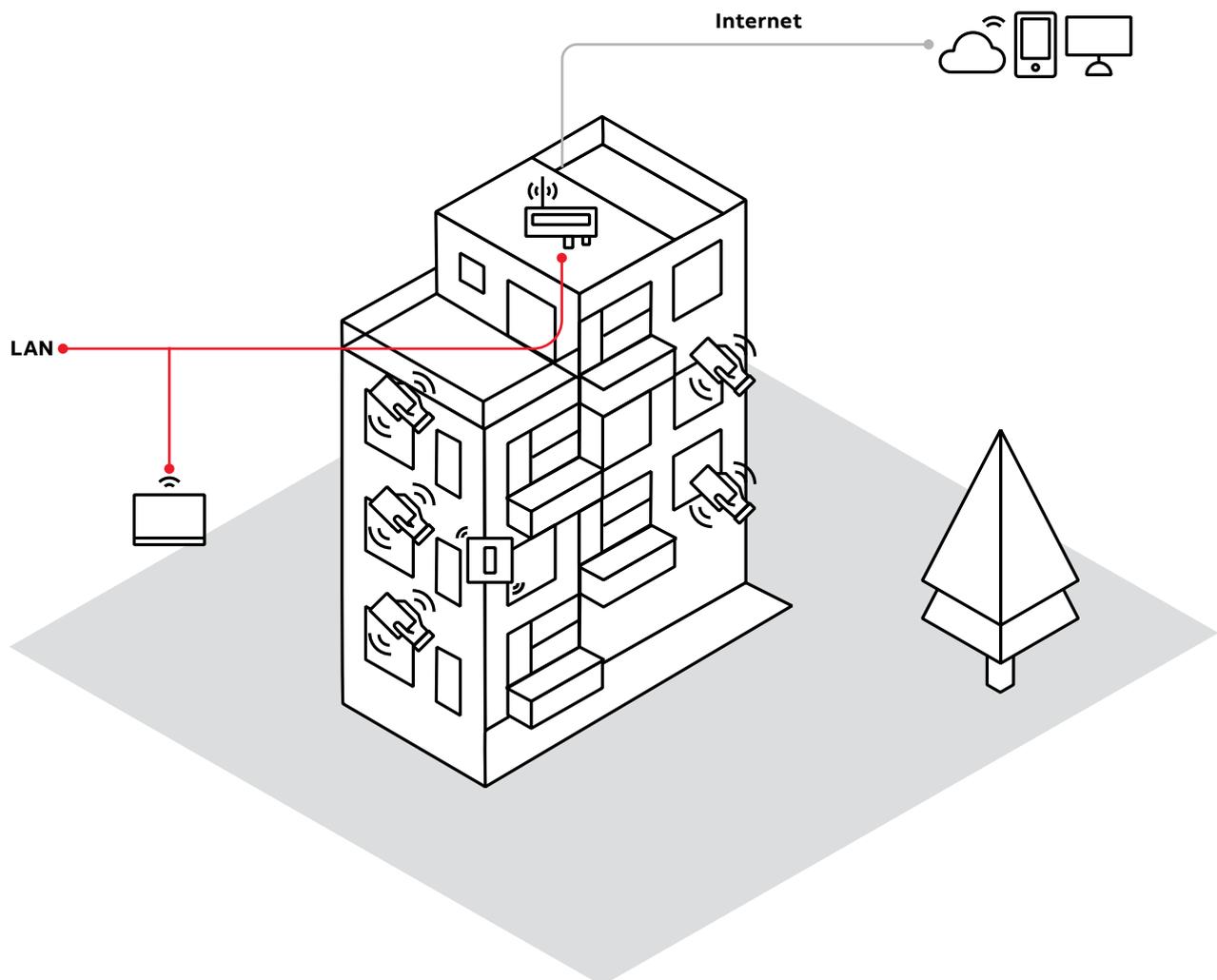


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# Applications

## Access control

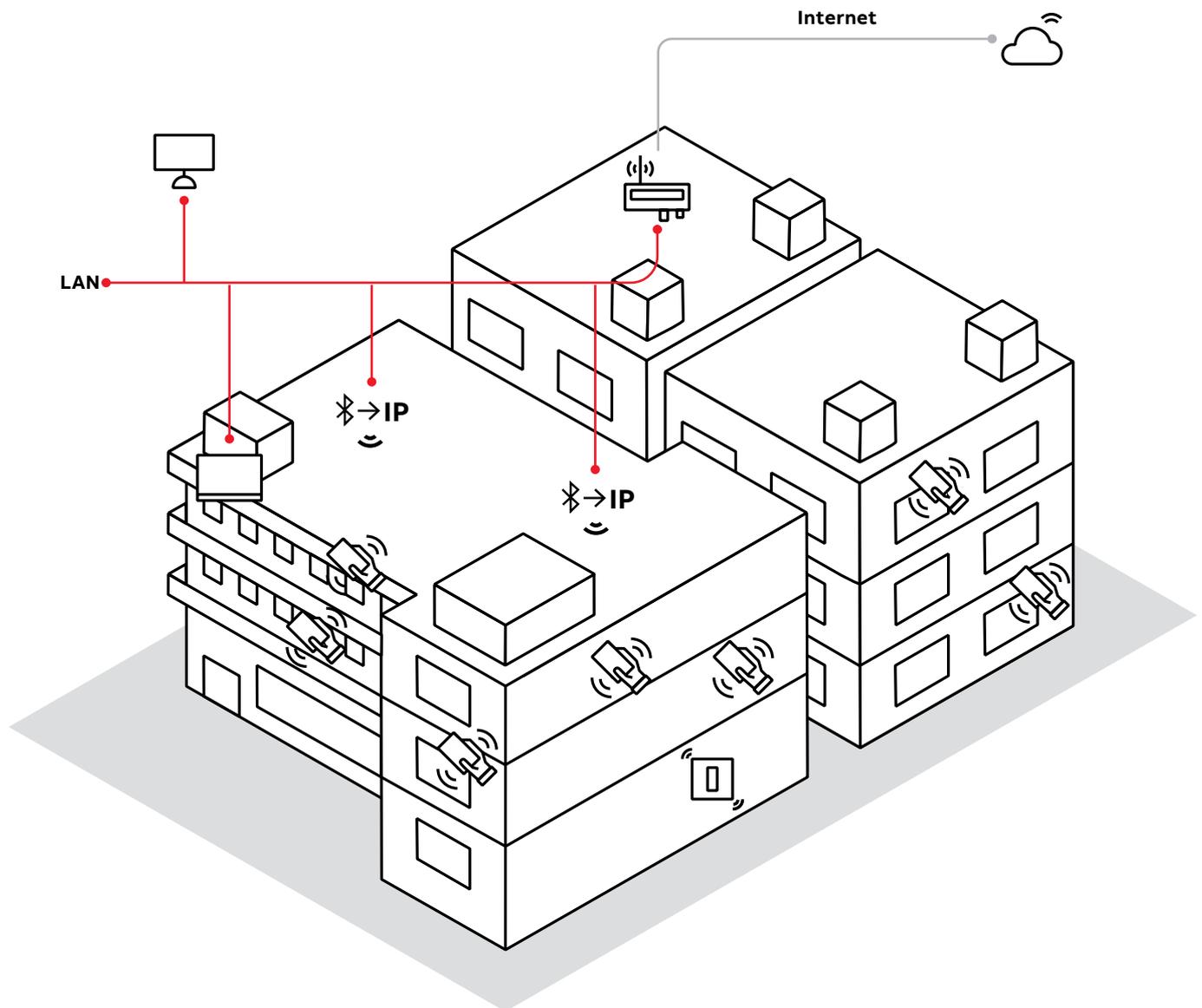
- Apartments need to replace existing door bell system by smart Access Point
- Small and middle size residential application such as apartments, where door locks are in range of smart Access Point
- Small office, with less than 16 doors



# Applications

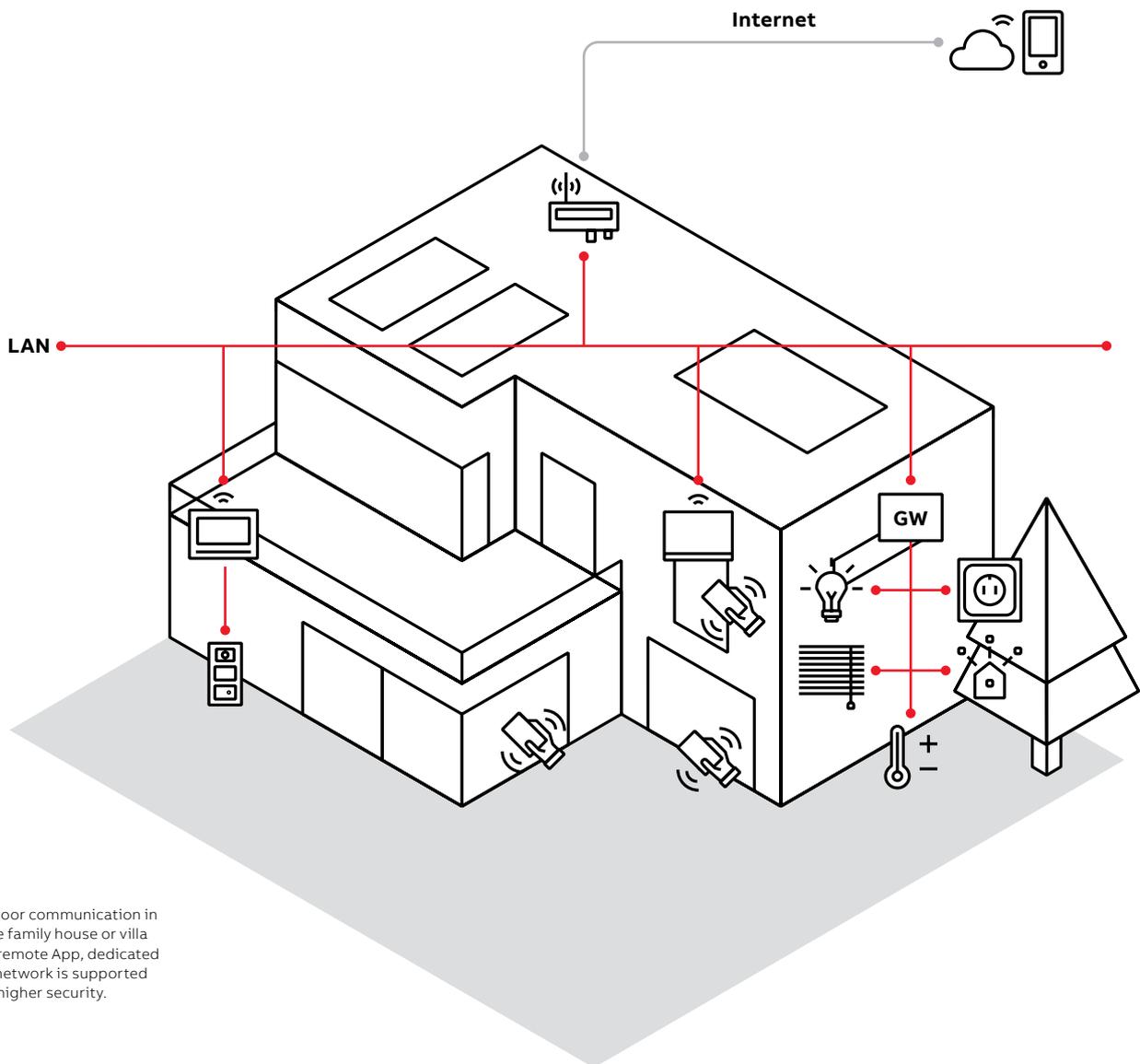
## Access control

- Big size residence with many rooms and floors, where a communication over backbone IP is easier because walls are too thick to transfer wireless signal
- Commercial application, e.g. hospital, school, with high number of doors and long distances from each door to control center



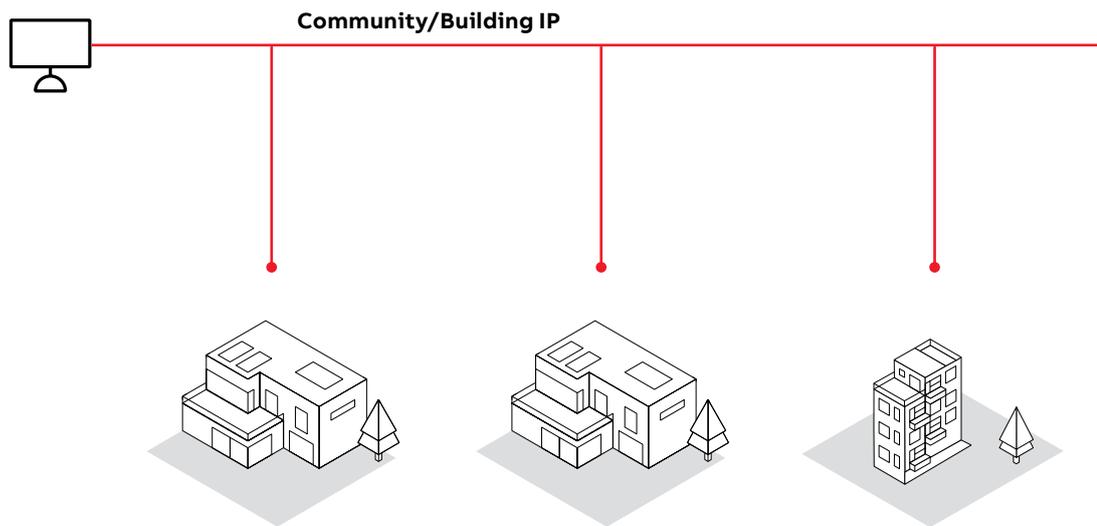
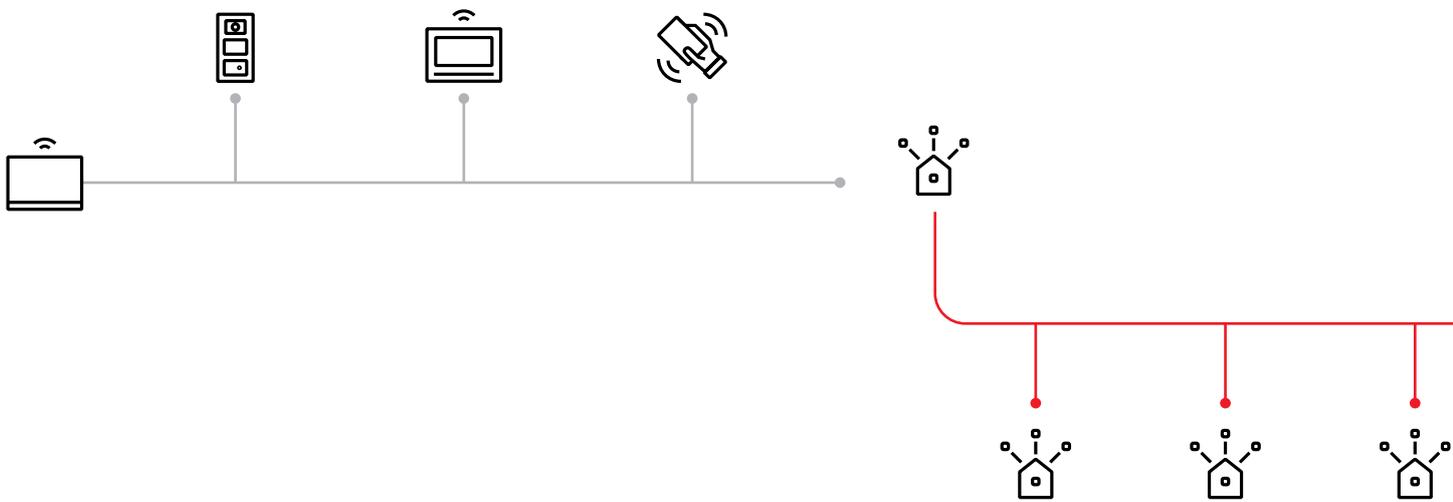
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# Applications

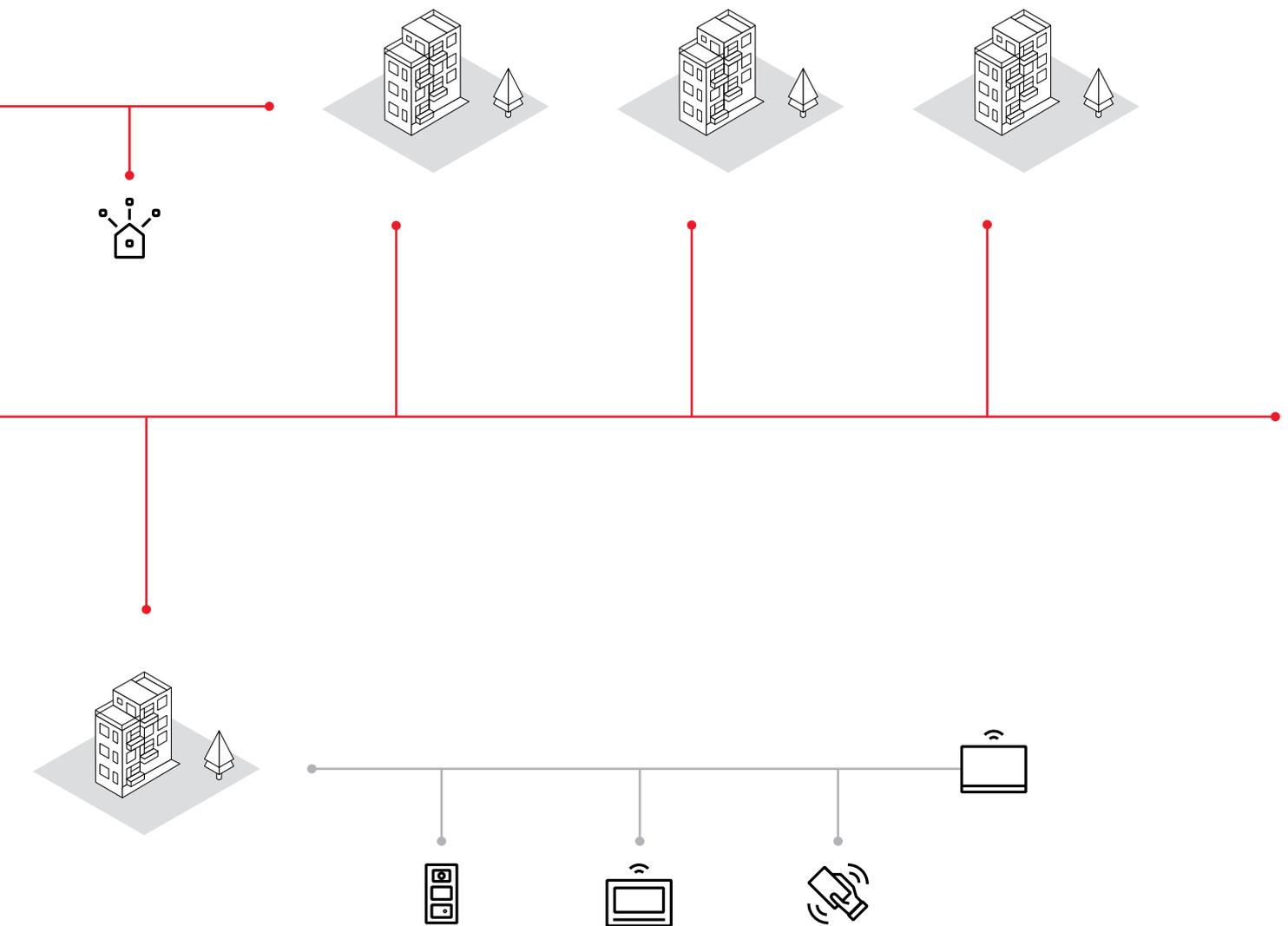


—  
The door communication in single family house or villa with remote App, dedicated DES network is supported with higher security.

# Applications



The whole system with management software to simultaneously monitor and both the community of a high building and villa.



## Door entry system

### ABB-Welcome IP - Video outdoor stations



#### Video outdoor station, touch 5", white

<b>Description</b>	Video outdoor station with 5 inch touch screen, integrated with transponder and keypad serves as end device for the communication with IP touch panel, guard unit or property management.
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming (720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Intuitive operable touchscreen &amp; Virtual keypad integrated</li> <li>- Advertising or Developer promotion display area</li> <li>- Name list / logo / physical address / logical address calling type</li> <li>- Wiegand output available</li> <li>- Opening of the door by DESFire or NFC</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54</li> <li>- Dimensions: 349 x 135 x 29 mm</li> </ul>
<b>Version</b>	Touch 5"
<b>Article no.</b>	H81381T-W
<b>Order no.</b>	2TMA130010W0013



#### Video outdoor station, touch 5", stainless steel

<b>Description</b>	Video outdoor station with 5 inch touch screen, integrated with transponder and keypad serves as end device for the communication with IP touch panel, guard unit or property management.
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming (720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Intuitive operable touchscreen &amp; Virtual keypad integrated</li> <li>- Advertising or Developer promotion display area</li> <li>- Name list / logo / physical address / logical address calling type</li> <li>- Wiegand output available</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Brushed stainless steel surface</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54, vandal proof as IK07</li> <li>- Dimensions: 349 x 135 x 29 mm</li> </ul>
<b>Version</b>	Touch 5"
<b>Article no.</b>	H81381T-S
<b>Order no.</b>	2TMA130010X0009

## Door entry system

### ABB-Welcome IP - Video outdoor stations



#### Video pushbutton outdoor station, white

<b>Description</b>	Video outdoor station with transponder and pushbutton(s) serves as end device for the communication with IP touch panel, guard unit or property management.		
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming(720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Bar and around pushbutton for optional</li> <li>- Pushbutton could be programmed as you want (switch on lighting, call indoor station or guard unit)</li> <li>- Bright back-lit ensures clear nameplate at night time</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Brushed stainless steel surface</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54, vandal proof as IK07</li> <li>- Dimensions: 277 x 135 x 29 mm</li> </ul>		
<b>Version</b>	1 pushbutton	2 pushbutton	3 pushbutton
<b>Article no.</b>	H81381P1-W	H81381P2-W	H81381P3-W
<b>Order no.</b>	2TMA130010W0021	2TMA130010W0025	2TMA130010W0029



#### Video pushbutton outdoor station, stainless steel

<b>Description</b>	Video outdoor station with transponder and pushbutton(s) serves as end device for the communication with IP touch panel, guard unit or property management.		
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming(720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Bar and around pushbutton for optional</li> <li>- Pushbutton could be programmed as you want (switch on lighting, call indoor station or guard unit)</li> <li>- Bright back-lit ensures clear nameplate at night time</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Brushed stainless steel surface</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54, vandal proof as IK07</li> <li>- Dimensions: 277 x 135 x 29 mm</li> </ul>		
<b>Version</b>	1 pushbutton	2 pushbutton	3 pushbutton
<b>Article no.</b>	H81381P1-S	H81381P2-S	H81381P3-S
<b>Order no.</b>	2TMA130010X0001	2TMA130010X0002	2TMA130010X0003

## Door entry system

### ABB-Welcome IP - Video outdoor stations



#### Video keypad outdoor station, white

<b>Description</b>	Video outdoor station with display, transponder and keypad serves as end device for the communication with IP touch panel, guard unit or property management.		
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming (720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Module design makes installation as easy as 1-2-3</li> <li>- Physical address / logical address calling type</li> <li>- Wiegand output available</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Brushed stainless steel surface</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54, vandal proof as IK07</li> <li>- Dimensions: 349 x 135 x 29 mm</li> </ul>		
<b>Version</b>	With ID	With IC	
<b>Article no.</b>	H81381K-W	H81382K-W	
<b>Order no.</b>	2TMA130010W0033	2TMA130010W0037	



#### Video keypad outdoor station, stainless steel

<b>Description</b>	Video outdoor station with display, transponder and keypad serves as end device for the communication with IP touch panel, guard unit or property management.		
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming (720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Module design makes installation as easy as 1-2-3</li> <li>- Physical address / logical address calling type</li> <li>- Wiegand output available</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Brushed stainless steel surface</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP54, vandal proof as IK07</li> <li>- Dimensions: 349 x 135 x 29 mm</li> </ul>		
<b>Version</b>	With ID	With IC	
<b>Article no.</b>	H81383K-S	H81384K-S	
<b>Order no.</b>	2TMA130010X0037	2TMA130010X0038	



#### Mini outdoor station, Aluminum alloy

<b>Features</b>	<ul style="list-style-type: none"> <li>- Compact size, surface mounted and flush mounted optional</li> <li>- 1 button and 2 buttons optional</li> <li>- Clean design with integrated status display</li> <li>- Light switch or calling guard programmable for the 2<sup>nd</sup> button</li> <li>- Up to 2 locks connections</li> <li>- Dustproof and waterproof as IP54, and vandal proof as IK07</li> </ul>			
<b>Technical details</b>	Dimensions: 168 x 99 x 26 mm		Dimensions: 180 x 105 x 43 mm	
<b>Version</b>	1 button, ID, SM	2 buttons, ID, SM	1 button, ID, FM	2 buttons, ID, FM
<b>Article no.</b>	H81313P1-A	H81313P2-A	H81363P1-A	H81363P2-A
<b>Order no.</b>	2TMA130010A0001	2TMA130010A0004	2TMA130010A0007	2TMA130010A0010

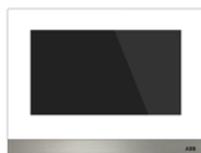


#### 2<sup>nd</sup> confirmed outdoor station, Aluminum alloy

<b>Features</b>	<ul style="list-style-type: none"> <li>- 1 button</li> <li>- Clean design with integrated status display</li> <li>- Light switch or calling guard programmable for the 2<sup>nd</sup> button</li> <li>- Up to 2 locks connections</li> <li>- Dustproof and waterproof as IP54, and vandal proof as IK07</li> </ul>			
<b>Technical details</b>	Dimensions: 180 x 105 x 43 mm			
<b>Version</b>	1 button, FM			
<b>Article no.</b>	H81364P1-A			
<b>Order no.</b>	2TMA130010A0013			

## Door entry system

### ABB-Welcome IP - Video indoor stations



#### IP touch 7, white

<b>Description</b>	The stylish multifunctional IP touch panel fits elegantly into any interior. Thanks to its intuitive design, the IP touch panel will display everything that is happening in front of your door. In addition, the panel can be a centralized screen for other ABB sub-system, like CCTV, access control and home automation.			
<b>Features</b>	<ul style="list-style-type: none"> <li>- Intuitive GUI on sliding screen (1024 x 600)</li> <li>- Clean &amp; consistent design with invisible mic &amp; speaker hole</li> <li>- Slim thickness with 7.8 mm when flush mounted</li> <li>- Color,material, End trip &amp; mounting type selectable</li> <li>- Extension to App without additional system device</li> <li>- Central control panel to DES,Smart lock,Surveillance,Basic alarm, Home automation (KNX &amp; F@H),Environmental health,Energy management</li> <li>- API &amp; Web-browser enable easy 3rd party integration</li> <li>- Cyber security and data privacy, - Easy installation in all kind of walls</li> <li>- Easy commissioning by QR code scanning or central PC management software</li> <li>- PoE and local power supply optional, - Remote fireware update</li> </ul>			
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP30</li> <li>- Dimensions: 199 x 150 x 17 mm (LAN+WiFi) 199 x 150 x 30 mm (LAN+LAN)</li> </ul>			
<b>Version</b>	support DES+KNX+f@h, LAN + WiFi, DC&PoE, full glass, SM&FM, white	support DES+KNX+f@h, LAN + LAN, DC&PoE, full glass, FM, white	with cyber security boot & storage, support DES+KNX+f@h+APP, LAN + WiFi, DC&PoE, with T-loop, end strip, SM&FM, white	with cyber security boot & storage, support DES+KNX+f@h+APP, LAN + LAN, DC&PoE, with T-loop, end strip, FM, white
<b>Article no.</b>	H8236-8WG	H8236-9WG	H8236-4W	H8236-5W
<b>Order no.</b>	2TMA130050W0063	2TMA130050W0064	2TMA130050W0065	2TMA130050W0067



#### IP touch 7, black

<b>Description</b>	The stylish multifunctional IP touch panel fits elegantly into any interior. Thanks to its intuitive design, the IP touch panel will display everything that is happening in front of your door. In addition, the panel can be a centralized screen for other ABB sub-system, like CCTV, access control and home automation.			
<b>Features</b>	<ul style="list-style-type: none"> <li>- Intuitive GUI on sliding screen(1024 x 600)</li> <li>- Clean &amp; consistent design with invisible mic &amp; speaker hole</li> <li>- Slim thickness with 7.8 mm when flush mounted</li> <li>- Color,material, End trip &amp; mounting type selectable</li> <li>- Extension to App without additional system device</li> <li>- Central control panel to DES,Smart lock,Surveillance,Basic alarm, Home automation (KNX &amp; F@H),Environmental health,Energy management</li> <li>- API &amp; Web-browser enable easy 3rd party integration</li> <li>- Cyber security and data privacy, - Easy installation in all kind of walls</li> <li>- Easy commissioning by QR code scanning or central PC management software</li> <li>- PoE and local power supply optional, - Remote fireware update</li> </ul>			
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP30</li> <li>- Dimensions: 199 x 150 x 17 mm (LAN+WiFi) 199 x 150 x 30 mm (LAN+LAN)</li> </ul>			
<b>Version</b>	support DES+KNX+f@h, LAN + WiFi, DC&PoE, full glass, SM&FM, black	support DES+KNX+f@h, LAN + LAN, DC&PoE, full glass, FM, black	with cyber security boot & storage, support DES+KNX+f@h+APP, LAN + WiFi, DC&PoE, with T-loop, end strip, SM&FM, black	with cyber security boot & storage, support DES+KNX+f@h+APP, LAN + LAN, DC&PoE, with T-loop, end strip, FM, black
<b>Article no.</b>	H8236-8BG	H8236-9BG	H8236-4B	H8236-5B
<b>Order no.</b>	2TMA130050B0063	2TMA130050B0064	2TMA130050B0065	2TMA130050B0067

## Door entry system

### ABB-Welcome IP - Video indoor stations



#### IP touch 10, White

<b>Description</b>	The stylish multifunctional IP touch panel fits elegantly into any interior. Thanks to its intuitive design, the IP touch panel will display everything that is happening in front of your door. In addition, the panel can be a centralized screen for other ABB sub-system, like video surveillance, access control and home automation			
<b>Features</b>	<ul style="list-style-type: none"> <li>- Intuitive GUI on sliding screen (1024 x 600)</li> <li>- Clean &amp; consistent design with invisible mic &amp; speaker hole</li> <li>- Slim thickness with 7.8 mm when flush mounted</li> <li>- Color,material, End trip &amp; mounting type selectable</li> <li>- Extension to App without additional system device</li> <li>- Central control panel to DES, Surveillance, Home automation (KNX &amp; F@H)</li> <li>- API &amp; Web-browser enable easy 3rd party integration</li> <li>- Cyber security and data privacy</li> <li>- Easy installation in all kind of walls</li> <li>- PoE and local power supply</li> </ul>			
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP30</li> <li>- Dimensions: 251 x 185 x 17 mm (LAN+WiFi) 251 x 185 x 31 mm (LAN+LAN)</li> </ul>			
<b>Version</b>	LAN + LAN interface, with induction loop, with PoE	LAN + WiFi interface, with induction loop, with PoE	Full glass panel LAN + LAN interface, with induction loop, with PoE	Full glass panel LAN + WiFi interface, with induction loop, with PoE
<b>Article no.</b>	H8237-5W	H8237-4W	H8237-9WG	H8237-8WG
<b>Order no.</b>	2TMA130050W0055	2TMA130050W0054	2TMA130051W0005	2TMA130051W0004



#### IP touch 10, Black

<b>Description</b>	The stylish multifunctional IP touch panel fits elegantly into any interior. Thanks to its intuitive design, the IP touch panel will display everything that is happening in front of your door. In addition, the panel can be a centralized screen for other ABB sub-system, like video surveillance, access control and home automation			
<b>Features</b>	<ul style="list-style-type: none"> <li>- Intuitive GUI on sliding screen (1024 x 600)</li> <li>- Clean &amp; consistent design with invisible mic &amp; speaker hole</li> <li>- Slim thickness with 7.8 mm when flush mounted</li> <li>- Color,material, End trip &amp; mounting type selectable</li> <li>- Extension to App without additional system device</li> <li>- Central control panel to DES, Surveillance, Home automation (KNX &amp; F@H)</li> <li>- API &amp; Web-browser enable easy 3rd party integration</li> <li>- Cyber security and data privacy</li> <li>- Easy installation in all kind of walls</li> <li>- PoE and local power supply</li> </ul>			
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Flush mounting and surface mounting</li> <li>- Dustproof and waterproof as IP30</li> <li>- Dimensions: 251 x 185 x 17 mm (LAN+WiFi) 251 x 185 x 31 mm (LAN+LAN)</li> </ul>			
<b>Version</b>	Stainless steel LAN + LAN interface, with induction loop, with PoE	Stainless steel LAN + WiFi interface, with induction loop, with PoE	Full glass panel LAN + LAN interface, with induction loop, with PoE	Full glass panel LAN + WiFi interface, with induction loop, with PoE
<b>Article no.</b>	H8237-5B	H8237-4B	H8237-9BG	H8237-8GB
<b>Order no.</b>	2TMA130050B0055	2TMA130050B0054	2TMA130051B0005	2TMA130051B0004

## Door entry system

### ABB-Welcome IP - System devices



#### Guard unit

<b>Description</b>	The guard unit with desk-top design provides access to various services using the intuitive icon menu on the touch screen. Communication is possible with IP touch panel, outdoor station and other guard unit.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Support to establish surveillance to outdoor station or IP camera.</li> <li>- Intercept to increase the security and service.</li> <li>- Support to release all doors or dedicated doors in case of emergency</li> <li>- Receive the alarm and panic call (SOS) from IP touch panel.</li> </ul>
<b>Technical details</b>	- Dimensions: 265 x 165 x 117 mm
<b>Article no.</b>	H8303
<b>Order no.</b>	2TMA130160W0018



#### Interface module for LAN + RS485 + 11 alarm zones

<b>Description</b>	Interface module use to extend LAN port, RS485 port, and alarm zones
<b>Features</b>	<ul style="list-style-type: none"> <li>- LAN port for private and public network</li> <li>- channels relay output</li> <li>1 channel 485 output</li> <li>12 V DC, 200 mA output</li> </ul>
<b>Technical details</b>	- Dimensions: 82 x 60 x 17 mm
<b>Article no.</b>	52361EX
<b>Order no.</b>	2TMA130160B0136



#### IP actuator (LAN port)

<b>Description</b>	Connecting electrical door opener or hall light directly
<b>Features</b>	- Easy to adjust the switching duration of unlock or the switching of light
<b>Technical details</b>	- Dimensions: 90 x 72 x 65 mm
<b>Version</b>	Gery
<b>Article no.</b>	H8304
<b>Order no.</b>	2TMA130160H0051



#### 24VDC mini Power adaptor

<b>Description</b>	Power adaptor supplies the power for IP touch panel and Wip AP
<b>Features</b>	- Provide stable power supply input
<b>Technical details</b>	Dimensions: 44 x 72 x 60 mm    Dimensions: 44 x 72 x 60 mm    Dimensions: 44 x 72 x 65 mm
<b>Version</b>	Chinese standard
<b>Article no.</b>	53012PS
<b>Order no.</b>	2TMA130160W0024

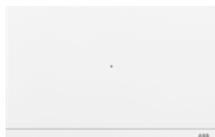


#### Power supply, 27 V DC, 95 W

<b>Description</b>	Power adaptor suppliers the power for system devices.
<b>Features</b>	- Support over voltage, over current, over-heat and short-circuit protection
<b>Technical details</b>	- Dimensions: 178 x 90 x 65 mm
<b>Article no.</b>	YSM01-PS
<b>Order no.</b>	2TMA130160H0085

## Door entry system

### ABB-Welcome IP - System devices



#### Smart Access Point

<b>Description</b>	A central management device of Welcome IP and AccessControl system, it can couple as sub-system, and also manage interworking of multiple sub-system of same type. Commissioning and remote control is executed via web interface. No additional commissioning software is required. Connection to the network via WLAN client mode or via CAT cable to manage all your access, configure all your devices, record your logs, etc.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Easy to commissioning</li> <li>- Access rights, who, where, when...</li> <li>- Enhanced security with record event log and receive notification and alert</li> <li>- Manage all connected devices</li> <li>- Interaction between different systems</li> <li>- Manage welcome App</li> <li>- Event management and building-wide messaging</li> <li>- Integrated chimey, easy for retrofit</li> <li>- In-build BLE, the best choice for standalone AC system</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimension: 204 mm × 132 mm × 32 mm</li> <li>- Network parameter: <ul style="list-style-type: none"> <li>• Operating mode: LAN/Wireless access point</li> <li>• Wireless transmission band: IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz</li> <li>• Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x</li> <li>• Network connection standard: 10 / 100 Mbps, auto MDI/MDI-X</li> </ul> </li> <li>- Radio interface: IEEE 802.15.4 2.4GHz radio</li> <li>- Power supply: <ul style="list-style-type: none"> <li>• 24VDC, together with ABB power adaptor</li> <li>• PoE(Power over Ethernet)</li> </ul> </li> <li>- Environment: <ul style="list-style-type: none"> <li>• Temperature: -10°C to +45°C</li> <li>• Protection type: IP30</li> <li>• Vandal proof: IK07</li> <li>• Humidity: 0 to 95%, non-condensing</li> </ul> </li> </ul>
<b>Version</b>	Pro
<b>Article no.</b>	D04011
<b>Order no.</b>	2TMA400260W0002

## Door entry system

### ABB-Welcome IP - Installation material



#### Flush-mounted box, 1 module, size 1/1

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 139 x 150 x 36 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41381F-B	41381F-H
<b>Order no.</b>	2TMA130160B0001	2TMA130160H0001



#### Flush-mounted box, 2 modules, size 1/2

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 139 x 150 x 36 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41382F-B	41382F-H
<b>Order no.</b>	2TMA130160B0002	2TMA130160H0002



#### Flush-mounted box, 3 modules, size 1/3

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 275 x 133 x 52 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41383F-B	41383F-H
<b>Order no.</b>	2TMA130160B0003	2TMA130160H0003



#### Flush-mounted box, 4 modules, size 1/4

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 347 x 133 x 52 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41384F-B	41384F-H
<b>Order no.</b>	2TMA130160B0004	2TMA130160H0004

## Door entry system

### ABB-Welcome IP - Installation material



#### Flush-mounted box, 5 modules, size 1/5

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 419 x 133 x 52 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41385F-B	41385F-H
<b>Order no.</b>	2TMA130160B0005	2TMA130160H0005



#### Flush-mounted box, 6 modules, size 2/3

<b>Description</b>	Mounting of outdoor station into the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 275 x 233 x 52 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41386F-B	41386F-H
<b>Order no.</b>	2TMA130160B0006	2TMA130160H0006



#### Surface-mounted box, 1 module, size 1/1

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	<ul style="list-style-type: none"> <li>- For surface-mounted installation of outdoor station.</li> <li>- The product is packed with accessories to ensure qualified installation.</li> </ul>	
<b>Technical details</b>	- Dimensions: 137 x 133 x 32 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41381S-B	41381S-H
<b>Order no.</b>	2TMA130160B0009	2TMA130160H0009

## Door entry system

### ABB-Welcome IP - Installation material



#### Surface-mounted box, 2 modules, size 1/2

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 203 x 133 x 32 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41382S-B	41382S-H
<b>Order no.</b>	2TMA130160B0010	2TMA130160H0010



#### Surface-mounted box, 3 modules, size 1/3

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 275 x 133 x 32 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41383S-B	41383S-H
<b>Order no.</b>	2TMA130160B0011	2TMA130160H0011



#### Surface-mounted box, 4 modules, size 1/4

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 347 x 133 x 52 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41384S-B	41384S-H
<b>Order no.</b>	2TMA130160B0012	2TMA130160H0012



#### Surface-mounted box, 5 modules, size 1/5

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 419 x 133 x 32 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41385S-B	41385S-H
<b>Order no.</b>	2TMA130160B0013	2TMA130160H0013



#### Surface-mounted box, 6 modules, size 2/3

<b>Description</b>	Mounting of outdoor station on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 275 x 233 x 32 mm	
<b>Version</b>	Anthracite	Grey
<b>Article no.</b>	41386S-B	41386S-H
<b>Order no.</b>	2TMA130160B0014	2TMA130160H0014

## Door entry system

### ABB-Welcome IP - Installation material



#### Flush-mounted box & pre-installation box for IP touch 7&10

<b>Description</b>	Flush-mounted box and Pre installation box for 7&10 inch video indoor station
<b>Features</b>	- The flush mounting box is fitted with knock down holes for cabling from left, right, bottom or back. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 194*145*55 mm
<b>Version</b>	2 boxes together
<b>Article no.</b>	42361F
<b>Order no.</b>	2TMA130160B0132



#### Pre-installation box, 1 module, size 1/1

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 133 x 124 x 65 mm
<b>Version</b>	Anthracite
<b>Article no.</b>	41381PB
<b>Order no.</b>	2TMA130160B0017



#### Pre-installation box, 2 modules, size 1/2

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 199 x 124 x 65 mm
<b>Version</b>	Anthracite
<b>Article no.</b>	41382PB
<b>Order no.</b>	2TMA130160B0018



#### Pre-installation box, 3 modules, size 1/3

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 270 x 124 x 65 mm
<b>Version</b>	Anthracite
<b>Article no.</b>	41383PB
<b>Order no.</b>	2TMA130160B0019



#### Pre-installation box, 4 modules, size 1/4

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 194 x 145 x 55 mm
<b>Version</b>	2 boxes together
<b>Article no.</b>	41384PB
<b>Order no.</b>	2TMA130160B0020

## Door entry system

### ABB-Welcome IP - Installation material



#### Pre-installation box, 5 modules, size 1/5

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 415 x 124 x 65 mm
<b>Version</b>	Anthracite
<b>Article no.</b>	41385PB
<b>Order no.</b>	2TMA130160B0021



#### Pre-installation box, 6 modules, size 2/3

<b>Description</b>	Serves for the mounting of outdoor station into the wall for higher stability.
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.
<b>Technical details</b>	- Dimensions: 332 x 271 x 224 mm
<b>Version</b>	Anthracite
<b>Article no.</b>	41386PB
<b>Order no.</b>	2TMA130160B0022



#### Surface mounted box for IP touch 7" panel

<b>Description</b>	Mounting of IP touch 7" panel on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 197 x 148 x 13 mm	
<b>Version</b>	White	Black
<b>Article no.</b>	42361S-W	42361S-B
<b>Order no.</b>	2TMA130160W0017	2TMA130160B0080



#### Surface mounted box for IP touch 10"

<b>Description</b>	Mounting of IP Touch on the wall	
<b>Features</b>	- For surface-mounted installation of outdoor station. - The product is packed with accessories to ensure qualified installation.	
<b>Technical details</b>	- Dimensions: 251*184*14 mm	
<b>Version</b>	White	Black
<b>Article no.</b>	42371S-W	42371S-B
<b>Order no.</b>	2TMA130161W0001	2TMA130161B0001



#### Rain hood, size 1/x, For SM

<b>Description</b>	Rain hood for rust and water petection
<b>Features</b>	-The aluminum rain hood is designed to adapt both surface mounting
<b>Technical details</b>	- Dimensions: 176 x 98 x 143 mm
<b>Version</b>	For surface mounted
<b>Article no.</b>	41383RH
<b>Order no.</b>	2TMA130160A0009



#### Rain hood, size 2/x, Aluminium

<b>Description</b>	Rain hood for rust and water petection
<b>Features</b>	- The aluminum rain hood is designed to adapt both surface mounting
<b>Technical details</b>	- Dimensions: 263 x 98 x 143 mm
<b>Version</b>	For surface mounted
<b>Article no.</b>	41384RH
<b>Order no.</b>	2TMA130160A0010

## Door entry system

### ABB-Welcome IP - Installation material



#### Rain hood, size 1/x, Aluminium

<b>Description</b>	Rain hood for rust and water petection
<b>Features</b>	-The aluminum rain hood is designed to adapt both surface mounting and flush mounting.
<b>Technical details</b>	- Dimensions: 98 x 143 x 68 mm
<b>Versio</b>	For flush mounted installation
<b>Article no.</b>	41381RH
<b>Order no.</b>	2TMA130160A0001



#### Rain hood, size 2/x, Aluminium

<b>Description</b>	Rain hood for rust and water petection
<b>Features</b>	-The aluminum rain hood is designed to adapt both surface mounting and flush mounting.
<b>Technical details</b>	- Dimensions: 98 x 243 x 68 mm
<b>Versio</b>	For flush mounted installation
<b>Article no.</b>	41382RH
<b>Order no.</b>	2TMA130160A0002



#### Rain hood, size 3/x, Aluminium

<b>Description</b>	Rain hood for rust and water petection
<b>Features</b>	-The aluminum rain hood is designed to adapt both surface mounting and flush mounting.
<b>Technical details</b>	- Dimensions: 202 x 98 x 416 mm
<b>Versio</b>	For surface mounted
<b>Article no.</b>	41385RH
<b>Order no.</b>	2TMA130160A0017



#### Video outdoor station frame, size 1/3

<b>Description</b>	Installation materials that used for outdoor station		
<b>Features</b>	- The invisible screw design is aesthetically pleasing		
<b>Technical details</b>	- Dimensions: 273 x 135 x 18 mm		
<b>Versio</b>	White	Stainless steel	Aluminum
<b>Article no.</b>	41383CF-W	41383CF-S	41383CF-A
<b>Order no.</b>	2TMA130160W0002	2TMA130160X0004	2TMA200160A0003



#### Video outdoor station frame, size 1/4

<b>Description</b>	Installation materials that used for outdoor station		
<b>Features</b>	- The invisible screw design is aesthetically pleasing		
<b>Technical details</b>	- Dimensions: 349 x 135 x 18 mm		
<b>Versio</b>	White	Stainless steel	Aluminum
<b>Article no.</b>	41384CF-W	41384CF-S	41384CF-A
<b>Order no.</b>	2TMA130160W0003	2TMA130160X0005	2TMA200160A0005



#### Video outdoor station frame, size 1/5

<b>Description</b>	Installation materials that used for outdoor station		
<b>Features</b>	- The invisible screw design is aesthetically pleasing		
<b>Technical details</b>	- Dimensions: 349 x 135 x 18 mm		
<b>Versio</b>	White	Stainless steel	Aluminum
<b>Article no.</b>	41385CF-W	41385CF-S	41385CF-A
<b>Order no.</b>	2TMA130160W0004	2TMA130160X0006	2TMA200160A0007

## Door entry system

### ABB-Welcome IP - Installation material



#### Video outdoor station frame, size 2/3

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing	
<b>Technical details</b>	- Dimensions: 277 x 235 x 18 mm	
<b>Version</b>	Stainless steel	Aluminum
<b>Article no.</b>	41386CF-S	41386CF-A
<b>Order no.</b>	2TMA130160X0007	2TMA200160A0009



#### Audio outdoor station frame, size 1/2

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing	
<b>Technical details</b>	- Dimensions: 205 x 135 x 20 mm	
<b>Version</b>	Aluminum	
<b>Article no.</b>	41392CF-A	
<b>Order no.</b>	2TMA200160A0011	



#### Audio outdoor station frame (extended panel), size 1/3

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing - It is possible to combine with other size 1/3 frame to extend multi-column frame installation to support more modules	
<b>Technical details</b>	- Dimensions: 277 x 135 x 18 mm	
<b>Version</b>	Stainless steel	Aluminum
<b>Article no.</b>	41393CF-S	41393CF-A
<b>Order no.</b>	2TMA130160X0060	2TMA200160A0013



#### Audio outdoor station frame (extended panel), size 1/4

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing - It is possible to combine with other size 1/4 frame to extend multi-column frame installation to support more modules	
<b>Technical details</b>	- Dimensions: 349 x 135 x 18 mm	
<b>Version</b>	Stainless steel	Aluminum
<b>Article no.</b>	41394CF-S	41394CF-A
<b>Order no.</b>	2TMA130160X0064	2TMA200160A0015



#### Audio outdoor station frame, size 1/5

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing - It is possible to combine with other size 1/5 frame to extend multi-column frame installation to support more modules	
<b>Technical details</b>	- Dimensions: 421 x 135 x 20 mm	
<b>Version</b>	Aluminum	
<b>Article no.</b>	41395CF-A	
<b>Order no.</b>	2TMA200160A0017	



#### Audio outdoor station frame, size 2/3

<b>Description</b>	Installation materials that used for outdoor station	
<b>Features</b>	- The invisible screw design is aesthetically pleasing	
<b>Technical details</b>	- Dimensions: 277 x 235 x 20 mm	
<b>Version</b>	Aluminum	
<b>Article no.</b>	41396CF-A	
<b>Order no.</b>	2TMA200160A0019	

## Door entry system

### ABB-Welcome IP - Outdoor station modules



#### A/V module with 720P camera, LAN cable

<b>Description</b>	Audio & video module as the heart of outdoor station.
<b>Features</b>	<ul style="list-style-type: none"> <li>- HD video streaming (720P) with 130 degree angle</li> <li>- Super anti-fog coating and in-built heater</li> <li>- LED indicator for real-time status</li> <li>- Suitable for the disabled</li> </ul>
<b>Technical details</b>	- Dimensions: 143 x 96 x 28 mm
<b>Article no.</b>	H851381M-S
<b>Order no.</b>	2TMA130160B0081



#### Big display module

<b>Description</b>	Integrated with transponder and keypad serves as big touch screen for daily operation for residential owners and visitors.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Intuitive operable touchscreen &amp; Virtual keypad integrated</li> <li>- Advertising or Developer promotion display area</li> <li>- Name list / logo / physical address / logical address calling type</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Wiegand output available</li> </ul>
<b>Technical details</b>	Dimensions: 143 x 96 x 23 mm
<b>Version</b>	(5 inch) (IC/Desfire)
<b>Article no.</b>	H851381DP
<b>Order no.</b>	2TMA130160B0082



#### Round pushbutton

<b>Description</b>	1/2/3 pushbutton for visitor to press for calling		
<b>Features</b>	<ul style="list-style-type: none"> <li>- Pushbutton could be programmed as you want (switch on lighting, call indoor station or guard unit)</li> <li>- Bright back-lit ensures clear nameplate at night time</li> <li>- Opening of the door by DESFire or NFC or IC card</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimensions: 97 x 72 x 25 mm</li> <li>- Rating current: 24 V DC, 10 mA</li> <li>- Operating temperature: -40 °C...+55 °C</li> </ul> <p>For NFC version</p> <ul style="list-style-type: none"> <li>- Rating current: 24 V DC, 40 mA</li> </ul>		
<b>Version</b>	1	2	3
<b>Article no.</b>	51381RP1	51381RP2	51381RP3
<b>Order no.</b>	2TMA130160N0003	2TMA130160N0004	2TMA130160N0005
<b>Version</b>	with NFC/IC -1	with NFC/IC -2	with NFC/IC -3
<b>Article no.</b>	51382RP1	51382RP2	51382RP3
<b>Order no.</b>	2TMA130160N0006	2TMA130160N0007	2TMA130160N0008



#### Bar pushbutton

<b>Description</b>	3/6 or 4/8 pushbutton for visitor to press for calling	
<b>Features</b>	<ul style="list-style-type: none"> <li>- Pushbutton could be programmed as one column or double columns</li> <li>- Bright back-lit ensures clear nameplate at night time</li> </ul>	
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimensions: 97 x 72 x 25 mm</li> <li>- Rating current: 24 V DC, 8 mA</li> <li>- Operating temperature: -40 °C...+55 °C</li> </ul>	
<b>Version</b>	3 (Bar button)	4 (Bar button)
<b>Article no.</b>	51381SP3	51381SP4
<b>Order no.</b>	2TMA130160N0001	2TMA130160N0002

## Door entry system

### ABB-Welcome IP - Outdoor station modules



#### Keypad with 1abc input

<b>Description</b>	Digital inputting module for keypad outdoor station		
<b>Features</b>	<ul style="list-style-type: none"> <li>- Enables the opening of the door using a numerical code</li> <li>- 3,000 passwords can be taught in</li> <li>- Customized passwords are allowed</li> <li>- Backlight automatically on for visibility at night</li> <li>- Call guard unit is available</li> </ul>		
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimensions: 97 x 72 x 25 mm</li> <li>- Rating current: 24 V DC, 20 mA</li> <li>- Operating temperature: -40 °C...+55 °C</li> </ul>		
<b>Version</b>	Stainless steel	White	Aluminum
<b>Article no.</b>	51381K-S	51381K-W	51381K-A
<b>Order no.</b>	2TMA130160X0001	2TMA130010W0014	2TMA210160A0009

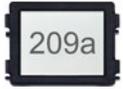


#### Display

<b>Description</b>	Display module ensure the customized message, code, and legible number always can be readed.	
<b>Features</b>	<ul style="list-style-type: none"> <li>- Physical address / logical address calling type</li> <li>- Opening of the door by DESFire or NFC or IC card.</li> <li>- Wiegand output available</li> <li>- Up to 5000 pcs cards can be registered</li> </ul>	
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimensions: 97 x 72 x 25 mm</li> <li>- Rating current: 24 V DC, 160 mA</li> <li>- Operating temperature: -40 °C...+55 °C</li> </ul>	
<b>Version</b>	IC/DES fire card	ID Card
<b>Article no.</b>	51382CR	51381CR
<b>Order no.</b>	2TMA130160N0009	2TMA130160N0010

## Door entry system

### ABB-Welcome IP - Outdoor station modules



#### Info module

<b>Description</b>	Info module is used to hold the address of the building or the resident directory and assembled in outdoor station
<b>Features</b>	- Stamped labelling foil is enclosed. - Backlight ensures clear visibility at night
<b>Technical details</b>	- Dimensions: 97 x 72 x 25 mm - Rating current: 24 V DC, 8 mA - Operating temperature: -40 °C...+55 °C
<b>Version</b>	
<b>Article no.</b>	51381DN
<b>Order no.</b>	2TMA200160N0039



#### Dummy module

<b>Description</b>	Dummy module is one blank module, support to put 3rd-party module inside, also support to future function module replacement
<b>Features</b>	- Maximum space inside: 54.5 x 9.4 x 74 mm
<b>Technical details</b>	- Dimensions: 97 x 72 x 25 mm
<b>Version</b>	
<b>Article no.</b>	51381DM
<b>Order no.</b>	2TMA200160N0040

## Door entry system

### ABB-Welcome IP - Accessories



#### Cushion set for surface-mounted installation

<b>Description</b>	Spare part for surface mounting when the installation cable lay on the wall
<b>Features</b>	- Easy to installation
<b>Technical details</b>	Dimensions: 15 x 10 x 5 mm
<b>Version</b>	
<b>Article no.</b>	52311C
<b>Order no.</b>	2TMA210160W0001



#### Joining fixture

<b>Description</b>	Joining fixture used when more than one flush mounted box needs to be connected together.
<b>Features</b>	- Easy to integrate mounting boxes together
<b>Technical details</b>	Dimensions: 83 x 120 x 80 mm
<b>Version</b>	
<b>Article no.</b>	51381J
<b>Order no.</b>	2TMA130160B0124



#### Mounting tool

<b>Description</b>	The mounting tool use to dismount the outdoor station.		
<b>Features</b>	- Easy to installation and removal end strip		
<b>Technical details</b>	Dimensions: 14 x 165 x 26 mm	Dimensions: 14 x 165 x 26 mm	
<b>Version</b>	135mm panel		
<b>Article no.</b>	51381MT		
<b>Order no.</b>	2TMA130160B0025		



#### Outdoor station End-strip

<b>Description</b>	End strip for outdoor station cover frame.		
<b>Features</b>	- Easy to install and replace		
<b>Technical details</b>	Dimensions: 71 x 135 x 19 mm	Dimensions: 71 x 135 x 19 mm	Dimensions: 71 x 135 x 19 mm
<b>Version</b>	size 1/x, Stainless steel	size 1/x, White	size 1/x, Aluminum
<b>Article no.</b>	51381EP-S	51381EP-W	51381EP-A
<b>Order no.</b>	2TMA130160X0002	2TMA130160W0001	2TMA200160A0021
<b>Technical details</b>	Dimensions: 123 x 235 x 19 mm	Dimensions: 123 x 235 x 19 mm	Dimensions: 71 x 135 x 19 mm
<b>Version</b>	size 2/x, Stainless steel	size 2/x, Aluminum	
<b>Article no.</b>	51382EP-S	51382EP-A	
<b>Order no.</b>	2TMA130160X0003	2TMA200160A0023	

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - European half profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 4x LR1 Alkali</li> <li>- Battery life at 20°C: up to 130.000 or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -35°C to 55°C</li> <li>- Protection type: up to IP66</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

#### Version European profile half cylinder

Article no.	Order no.	Technical data	Article no.	Order no.	Technical data
D01EU300003NF1-04	2CKA008300A1174	30/00	D01EU304003NF1-04	2CKA008300A1201	30/40
D01EU350003NF1-04	2CKA008300A1175	35/00	D01EU354003NF1-04	2CKA008300A1202	35/40
D01EU400003NF1-04	2CKA008300A1176	40/00	D01EU404003NF1-04	2CKA008300A1203	40/40
D01EU450003NF1-04	2CKA008300A1177	45/00	D01EU454003NF1-04	2CKA008300A1204	45/40
D01EU500003NF1-04	2CKA008300A1178	50/00	D01EU504003NF1-04	2CKA008300A1205	50/40
D01EU550003NF1-04	2CKA008300A1179	55/00	D01EU554003NF1-04	2CKA008300A1206	55/40
D01EU600003NF1-04	2CKA008300A1180	60/00	D01EU604003NF1-04	2CKA008300A1207	60/40
D01EU650003NF1-04	2CKA008300A1181	65/00	D01EU654003NF1-04	2CKA008300A1208	65/40
D01EU700003NF1-04	2CKA008300A1182	70/00	D01EU704003NF1-04	2CKA008300A1209	70/40
D01EU303003NF1-04	2CKA008300A1183	30/30	D01EU304503NF1-04	2CKA008300A1210	30/45
D01EU353003NF1-04	2CKA008300A1184	35/30	D01EU354503NF1-04	2CKA008300A1211	35/45
D01EU403003NF1-04	2CKA008300A1185	40/30	D01EU404503NF1-04	2CKA008300A1212	40/45
D01EU453003NF1-04	2CKA008300A1186	45/30	D01EU454503NF1-04	2CKA008300A1213	45/45
D01EU503003NF1-04	2CKA008300A1187	50/30	D01EU504503NF1-04	2CKA008300A1214	50/45
D01EU553003NF1-04	2CKA008300A1188	55/30	D01EU554503NF1-04	2CKA008300A1215	55/45
D01EU603003NF1-04	2CKA008300A1189	60/30	D01EU604503NF1-04	2CKA008300A1216	60/45
D01EU653003NF1-04	2CKA008300A1190	65/30	D01EU654503NF1-04	2CKA008300A1217	65/45
D01EU703003NF1-04	2CKA008300A1191	70/30	D01EU704503NF1-04	2CKA008300A1218	70/45
D01EU303503NF1-04	2CKA008300A1192	30/35	D01EU305003NF1-04	2CKA008300A1219	30/50
D01EU353503NF1-04	2CKA008300A1193	35/35	D01EU355003NF1-04	2CKA008300A1220	35/50
D01EU403503NF1-04	2CKA008300A1194	40/35	D01EU405003NF1-04	2CKA008300A1221	40/50
D01EU453503NF1-04	2CKA008300A1195	45/35	D01EU455003NF1-04	2CKA008300A1222	45/50
D01EU503503NF1-04	2CKA008300A1196	50/35	D01EU505003NF1-04	2CKA008300A1223	50/50
D01EU553503NF1-04	2CKA008300A1197	55/35	D01EU555003NF1-04	2CKA008300A1224	55/50
D01EU603503NF1-04	2CKA008300A1198	60/35	D01EU605003NF1-04	2CKA008300A1225	60/50
D01EU653503NF1-04	2CKA008300A1199	65/35	D01EU655003NF1-04	2CKA008300A1226	65/50
D01EU703503NF1-04	2CKA008300A1200	70/35	D01EU705003NF1-04	2CKA008300A1227	70/50

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - European full profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 1 x 3 V CR2 lithium</li> <li>- Battery life at 20°C: up to 50,000 cycles or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -25°C to +70°C</li> <li>- Protection type: up to IP55 (outside)</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

#### Version European cylinder with thumbturn

Article no.	Order no.	Technical data	Article no.	Order no.	Technical data
D01EU303003TF1-04	2CKA008300A1228	30/30	D01EU505503TF1-04	2CKA008300A1269	50/55
D01EU303503TF1-04	2CKA008300A1229	30/35	D01EU506003TF1-04	2CKA008300A1270	50/60
D01EU304003TF1-04	2CKA008300A1230	30/40	D01EU506503TF1-04	2CKA008300A1271	50/65
D01EU304503TF1-04	2CKA008300A1231	30/45	D01EU507003TF1-04	2CKA008300A1272	50/70
D01EU305003TF1-04	2CKA008300A1232	30/50	D01EU553003TF1-04	2CKA008300A1273	55/30
D01EU305503TF1-04	2CKA008300A1233	30/55	D01EU553503TF1-04	2CKA008300A1274	55/35
D01EU306003TF1-04	2CKA008300A1234	30/60	D01EU554003TF1-04	2CKA008300A1275	55/40
D01EU306503TF1-04	2CKA008300A1235	30/65	D01EU554503TF1-04	2CKA008300A1276	55/45
D01EU307003TF1-04	2CKA008300A1236	30/70	D01EU555003TF1-04	2CKA008300A1277	55/50
D01EU353003TF1-04	2CKA008300A1237	35/30	D01EU555503TF1-04	2CKA008300A1278	55/55
D01EU353503TF1-04	2CKA008300A1238	35/35	D01EU556003TF1-04	2CKA008300A1279	55/60
D01EU354003TF1-04	2CKA008300A1239	35/40	D01EU556503TF1-04	2CKA008300A1280	55/65
D01EU354503TF1-04	2CKA008300A1240	35/45	D01EU557003TF1-04	2CKA008300A1281	55/70
D01EU355003TF1-04	2CKA008300A1241	35/50	D01EU603003TF1-04	2CKA008300A1282	60/30
D01EU355503TF1-04	2CKA008300A1242	35/55	D01EU603503TF1-04	2CKA008300A1283	60/35
D01EU356003TF1-04	2CKA008300A1243	35/60	D01EU604003TF1-04	2CKA008300A1284	60/40
D01EU356503TF1-04	2CKA008300A1244	35/65	D01EU604503TF1-04	2CKA008300A1285	60/45
D01EU357003TF1-04	2CKA008300A1245	35/70	D01EU605003TF1-04	2CKA008300A1286	60/50
D01EU403003TF1-04	2CKA008300A1246	40/30	D01EU605503TF1-04	2CKA008300A1287	60/55
D01EU403503TF1-04	2CKA008300A1247	40/35	D01EU606003TF1-04	2CKA008300A1288	60/60
D01EU404003TF1-04	2CKA008300A1248	40/40	D01EU606503TF1-04	2CKA008300A1289	60/65
D01EU404503TF1-04	2CKA008300A1249	40/45	D01EU607003TF1-04	2CKA008300A1290	60/70
D01EU405003TF1-04	2CKA008300A1250	40/50	D01EU653003TF1-04	2CKA008300A1291	65/30
D01EU405503TF1-04	2CKA008300A1251	40/55	D01EU653503TF1-04	2CKA008300A1292	65/35
D01EU406003TF1-04	2CKA008300A1252	40/60	D01EU654003TF1-04	2CKA008300A1293	65/40
D01EU406503TF1-04	2CKA008300A1253	40/65	D01EU654503TF1-04	2CKA008300A1294	65/45
D01EU407003TF1-04	2CKA008300A1254	40/70	D01EU655003TF1-04	2CKA008300A1295	65/50
D01EU453003TF1-04	2CKA008300A1255	45/30	D01EU655503TF1-04	2CKA008300A1296	65/55
D01EU453503TF1-04	2CKA008300A1256	45/35	D01EU656003TF1-04	2CKA008300A1297	65/60

## Access Control

### ABB-AccessControl - Cylinders

Version European cylinder with thumbturn					
Article no.	Order no.	Technical data	Article no.	Order no.	Technical data
D01EU454003TF1-04	2CKA008300A1257	45/40	D01EU656503TF1-04	2CKA008300A1298	65/65
D01EU454503TF1-04	2CKA008300A1258	45/45	D01EU657003TF1-04	2CKA008300A1299	65/70
D01EU455003TF1-04	2CKA008300A1259	45/50	D01EU703003TF1-04	2CKA008300A1300	70/30
D01EU455503TF1-04	2CKA008300A1260	45/55	D01EU703503TF1-04	2CKA008300A1301	70/35
D01EU456003TF1-04	2CKA008300A1261	45/60	D01EU704003TF1-04	2CKA008300A1302	70/40
D01EU456503TF1-04	2CKA008300A1262	45/65	D01EU704503TF1-04	2CKA008300A1303	70/45
D01EU457003TF1-04	2CKA008300A1263	45/70	D01EU705003TF1-04	2CKA008300A1304	70/50
D01EU503003TF1-04	2CKA008300A1264	50/30	D01EU705503TF1-04	2CKA008300A1305	70/55
D01EU503503TF1-04	2CKA008300A1265	50/35	D01EU706003TF1-04	2CKA008300A1306	70/60
D01EU504003TF1-04	2CKA008300A1266	50/40	D01EU706503TF1-04	2CKA008300A1307	70/65
D01EU504503TF1-04	2CKA008300A1267	50/45	D01EU707003TF1-04	2CKA008300A1308	70/70
D01EU505003TF1-04	2CKA008300A1268	50/50			

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - Swiss half profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 1 x 3 V CR2 lithium</li> <li>- Battery life at 20°C: up to 50,000 cycles or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -25°C to +70°C</li> <li>- Protection type: up to IP55 (outside)</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

Version Swiss round profile half cylinder					
Article no.	Order no.	Technical data	Article no.	Order no.	Technical data
D01CH300003NF1-04	2CKA008300A1309	30/00	D01CH304003NF1-04	2CKA008300A1336	30/40
D01CH350003NF1-04	2CKA008300A1310	35/00	D01CH354003NF1-04	2CKA008300A1337	35/40
D01CH400003NF1-04	2CKA008300A1311	40/00	D01CH404003NF1-04	2CKA008300A1338	40/40
D01CH450003NF1-04	2CKA008300A1312	45/00	D01CH454003NF1-04	2CKA008300A1339	45/40
D01CH500003NF1-04	2CKA008300A1313	50/00	D01CH504003NF1-04	2CKA008300A1340	50/40
D01CH550003NF1-04	2CKA008300A1314	55/00	D01CH554003NF1-04	2CKA008300A1341	55/40
D01CH600003NF1-04	2CKA008300A1315	60/00	D01CH604003NF1-04	2CKA008300A1342	60/40
D01CH650003NF1-04	2CKA008300A1316	65/00	D01CH654003NF1-04	2CKA008300A1343	65/40
D01CH700003NF1-04	2CKA008300A1317	70/00	D01CH704003NF1-04	2CKA008300A1344	70/40
D01CH303003NF1-04	2CKA008300A1318	30/30	D01CH304503NF1-04	2CKA008300A1345	30/45
D01CH353003NF1-04	2CKA008300A1319	35/30	D01CH354503NF1-04	2CKA008300A1346	35/45
D01CH403003NF1-04	2CKA008300A1320	40/30	D01CH404503NF1-04	2CKA008300A1347	40/45
D01CH453003NF1-04	2CKA008300A1321	45/30	D01CH454503NF1-04	2CKA008300A1348	45/45
D01CH503003NF1-04	2CKA008300A1322	50/30	D01CH504503NF1-04	2CKA008300A1349	50/45
D01CH553003NF1-04	2CKA008300A1323	55/30	D01CH554503NF1-04	2CKA008300A1350	55/45
D01CH603003NF1-04	2CKA008300A1324	60/30	D01CH604503NF1-04	2CKA008300A1351	60/45
D01CH653003NF1-04	2CKA008300A1325	65/30	D01CH654503NF1-04	2CKA008300A1352	65/45
D01CH703003NF1-04	2CKA008300A1326	70/30	D01CH704503NF1-04	2CKA008300A1353	70/45
D01CH303503NF1-04	2CKA008300A1327	30/35	D01CH305003NF1-04	2CKA008300A1354	30/50
D01CH353503NF1-04	2CKA008300A1328	35/35	D01CH355003NF1-04	2CKA008300A1355	35/50
D01CH403503NF1-04	2CKA008300A1329	40/35	D01CH405003NF1-04	2CKA008300A1356	40/50
D01CH453503NF1-04	2CKA008300A1330	45/35	D01CH455003NF1-04	2CKA008300A1357	45/50
D01CH503503NF1-04	2CKA008300A1331	50/35	D01CH505003NF1-04	2CKA008300A1358	50/50
D01CH553503NF1-04	2CKA008300A1332	55/35	D01CH555003NF1-04	2CKA008300A1359	55/50
D01CH603503NF1-04	2CKA008300A1333	60/35	D01CH605003NF1-04	2CKA008300A1360	60/50
D01CH653503NF1-04	2CKA008300A1334	65/35	D01CH655003NF1-04	2CKA008300A1361	65/50
D01CH703503NF1-04	2CKA008300A1335	70/35	D01CH705003NF1-04	2CKA008300A1362	70/50

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - Swiss full profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 1 x 3 V CR2 lithium</li> <li>- Battery life at 20°C: up to 50,000 cycles or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -25°C to +70°C</li> <li>- Protection type: up to IP55 (outside)</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

#### Version Swiss round profile cylinder with thumbturn

Article no.	Order no.	Technical data	Article no.	Order no.	Technical data
D01CH303003TF1-04	2CKA008300A1363	30/30	D01CH505503TF1-04	2CKA008300A1404	50/55
D01CH303503TF1-04	2CKA008300A1364	30/35	D01CH506003TF1-04	2CKA008300A1405	50/60
D01CH304003TF1-04	2CKA008300A1365	30/40	D01CH506503TF1-04	2CKA008300A1406	50/65
D01CH304503TF1-04	2CKA008300A1366	30/45	D01CH507003TF1-04	2CKA008300A1407	50/70
D01CH305003TF1-04	2CKA008300A1367	30/50	D01CH553003TF1-04	2CKA008300A1408	55/30
D01CH305503TF1-04	2CKA008300A1368	30/55	D01CH553503TF1-04	2CKA008300A1409	55/35
D01CH306003TF1-04	2CKA008300A1369	30/60	D01CH554003TF1-04	2CKA008300A1410	55/40
D01CH306503TF1-04	2CKA008300A1370	30/65	D01CH554503TF1-04	2CKA008300A1411	55/45
D01CH307003TF1-04	2CKA008300A1371	30/70	D01CH555003TF1-04	2CKA008300A1412	55/50
D01CH353003TF1-04	2CKA008300A1372	35/30	D01CH555503TF1-04	2CKA008300A1413	55/55
D01CH353503TF1-04	2CKA008300A1373	35/35	D01CH556003TF1-04	2CKA008300A1414	55/60
D01CH354003TF1-04	2CKA008300A1374	35/40	D01CH556503TF1-04	2CKA008300A1415	55/65
D01CH354503TF1-04	2CKA008300A1375	35/45	D01CH557003TF1-04	2CKA008300A1416	55/70
D01CH355003TF1-04	2CKA008300A1376	35/50	D01CH603003TF1-04	2CKA008300A1417	60/30
D01CH355503TF1-04	2CKA008300A1377	35/55	D01CH603503TF1-04	2CKA008300A1418	60/35
D01CH356003TF1-04	2CKA008300A1378	35/60	D01CH604003TF1-04	2CKA008300A1419	60/40
D01CH356503TF1-04	2CKA008300A1379	35/65	D01CH604503TF1-04	2CKA008300A1420	60/45
D01CH357003TF1-04	2CKA008300A1380	35/70	D01CH605003TF1-04	2CKA008300A1421	60/50
D01CH403003TF1-04	2CKA008300A1381	40/30	D01CH605503TF1-04	2CKA008300A1422	60/55
D01CH403503TF1-04	2CKA008300A1382	40/35	D01CH606003TF1-04	2CKA008300A1423	60/60
D01CH404003TF1-04	2CKA008300A1383	40/40	D01CH606503TF1-04	2CKA008300A1424	60/65
D01CH404503TF1-04	2CKA008300A1384	40/45	D01CH607003TF1-04	2CKA008300A1425	60/70
D01CH405003TF1-04	2CKA008300A1385	40/50	D01CH653003TF1-04	2CKA008300A1426	65/30
D01CH405503TF1-04	2CKA008300A1386	40/55	D01CH653503TF1-04	2CKA008300A1427	65/35
D01CH406003TF1-04	2CKA008300A1387	40/60	D01CH654003TF1-04	2CKA008300A1428	65/40
D01CH406503TF1-04	2CKA008300A1388	40/65	D01CH654503TF1-04	2CKA008300A1429	65/45
D01CH407003TF1-04	2CKA008300A1389	40/70	D01CH655003TF1-04	2CKA008300A1430	65/50
D01CH453003TF1-04	2CKA008300A1390	45/30	D01CH655503TF1-04	2CKA008300A1431	65/55
D01CH453503TF1-04	2CKA008300A1391	45/35	D01CH656003TF1-04	2CKA008300A1432	65/60

## Access Control

### ABB-AccessControl - Cylinders

<b>Version Swiss round profile cylinder with thumbturn</b>					
<b>Article no.</b>	<b>Order no.</b>	<b>Technical data</b>	<b>Article no.</b>	<b>Order no.</b>	<b>Technical data</b>
D01CH454003TF1-04	2CKA008300A1392	45/40	D01CH656503TF1-04	2CKA008300A1433	65/65
D01CH454503TF1-04	2CKA008300A1393	45/45	D01CH657003TF1-04	2CKA008300A1434	65/70
D01CH455003TF1-04	2CKA008300A1394	45/50	D01CH703003TF1-04	2CKA008300A1435	70/30
D01CH455503TF1-04	2CKA008300A1395	45/55	D01CH703503TF1-04	2CKA008300A1436	70/35
D01CH456003TF1-04	2CKA008300A1396	45/60	D01CH704003TF1-04	2CKA008300A1437	70/40
D01CH456503TF1-04	2CKA008300A1397	45/65	D01CH704503TF1-04	2CKA008300A1438	70/45
D01CH457003TF1-04	2CKA008300A1398	45/70	D01CH705003TF1-04	2CKA008300A1439	70/50
D01CH503003TF1-04	2CKA008300A1399	50/30	D01CH705503TF1-04	2CKA008300A1440	70/55
D01CH503503TF1-04	2CKA008300A1400	50/35	D01CH706003TF1-04	2CKA008300A1441	70/60
D01CH504003TF1-04	2CKA008300A1401	50/40	D01CH706503TF1-04	2CKA008300A1442	70/65
D01CH504503TF1-04	2CKA008300A1402	50/45	D01CH707003TF1-04	2CKA008300A1443	70/70
D01CH505003TF1-04	2CKA008300A1403	50/50			

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - ANSI mortise profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 1 x 3 V CR2 lithium</li> <li>- Battery life at 20°C: up to 50,000 cycles or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -25°C to +70°C</li> <li>- Protection type: up to IP55 (outside)</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

#### Version US mortise profile cylinder

Order no.	Article no.	Technical data
2CKA008300A0986	D01MO320005NF1-04	32/00 MO
2CKA008300A0987	D01MO350005NF1-04	36/00 MO
2CKA008300A0988	D01MO380005NF1-04	38/00 MO
2CKA008300A0989	D01MO410005NF1-04	41/00 MO
2CKA008300A0990	D01MO440005NF1-04	44/00 MO
2CKA008300A0991	D01MO500005NF1-04	50/00 MO

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - Scandinavian profile

<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Simple installation and easy retrofit to traditional mechanical cylinder</li> <li>- Different portfolios to meet different user scenarios</li> <li>- Simple and intuitive design</li> <li>- Highly security on mechanical protection and data transfer</li> <li>- Easy and feasible configuration and daily management</li> </ul>
<b>Technical details</b>	<p>Supported RFID standards</p> <ul style="list-style-type: none"> <li>- MIFARE (DESFire EV1)</li> </ul> <p>Radio interface:</p> <ul style="list-style-type: none"> <li>- IEEE 802.15.4 2.4GHz radio</li> </ul> <p>Power supply/service life</p> <ul style="list-style-type: none"> <li>- Battery: 1 x 3 V CR2 lithium</li> <li>- Battery life at 20°C: up to 50,000 cycles or up to 3 years</li> </ul> <p>Environment</p> <ul style="list-style-type: none"> <li>- Temperature: -25°C to +70°C</li> <li>- Protection type: up to IP55 (outside)</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> <p>Certification symbol</p> <ul style="list-style-type: none"> <li>- CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE</li> </ul>

#### Version Scandinavian profile half cylinder

Order no.	Article no.	Technical data
2CKA008300A0846	D01SC300005NF1-04	30/00

## Access Control

### ABB-AccessControl - Cylinders



#### Cylinder - ANSI rim profile

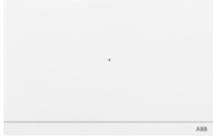
<b>Description</b>	The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting. The cylinder can be operated offline, in a local networked configuration or online through internet.
<b>Features</b>	Simple installation and easy retrofit to traditional mechanical cylinder Different portfolios to meet different user scenarios Simple and intuitive design Highly security on mechanical protection and data transfer Easy and feasible configuration and daily management
<b>Technical details</b>	Supported RFID standards - MIFARE (DESFire EV1) Radio interface: - IEEE 802.15.4 2.4GHz radio Power supply/service life - Battery: 1 x 3 V CR2 lithium - Battery life at 20°C: up to 50,000 cycles or up to 3 years Environment - Temperature: -25°C to +70°C - Protection type: up to IP55 (outside) - Humidity: 0 to 95%, non-condensing Certification symbol - CE,UL,CCC,FCC,IP66,RCM,EAC,WEEE

#### Version US RIM profile cylinder

Order no.	Article no.	Technical data
2CKA008300A0983	D01US000008NF1-04	00/00

## Access Control

### ABB-AccessControl - System devices



#### Smart Access Point

<b>Description</b>	A central management device of Welcome IP and AccessControl system, it can couple as sub-system, and also manage interworking of multiple sub-system of same type. Commissioning and remote control is executed via web interface. No additional commissioning software is required. Connection to the network via WLAN client mode or via CAT cable to manage all your access, configure all your devices, record your logs, etc.	
<b>Features</b>	<ul style="list-style-type: none"> <li>- Easy to commissioning</li> <li>- Access rights, who, where, when...</li> <li>- Enhanced security with record event log and receive notification and alert</li> <li>- Manage all connected devices</li> <li>- Interaction between different systems</li> <li>- Manage welcome App</li> <li>- Event management and building-wide messaging</li> </ul>	<ul style="list-style-type: none"> <li>- Easy to commissioning</li> <li>- Access rights, who, where, when...</li> <li>- Enhanced security with record event log and receive notification and alert</li> <li>- Manage all connected devices</li> <li>- Interaction between different systems</li> <li>- Manage welcome App</li> <li>- Event management and building-wide messaging</li> <li>- Integrated chimey, easy for retrofit</li> <li>- In-build BLE, the best choice for standalone AC system</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimension: 204 mm × 132 mm × 32 mm</li> <li>- Network parameter:                             <ul style="list-style-type: none"> <li>• Operating mode: LAN/Wireless access point</li> <li>• Wireless transmission band: IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz</li> <li>• Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x</li> <li>• Network connection standard: 10 / 100 Mbps, auto MDI/MDI-X</li> </ul> </li> <li>- Power supply:                             <ul style="list-style-type: none"> <li>• 24VDC, together with ABB power adaptor</li> <li>• PoE(Power over Ethernet)</li> </ul> </li> <li>- Environment:                             <ul style="list-style-type: none"> <li>• Temperature: -10°C to +45°C</li> <li>• Protection type: IP30</li> <li>• Vandal proof: IK07</li> <li>• Humidity: 0 to 95%, non-condensing</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- Dimension: 204 mm × 132 mm × 32 mm</li> <li>- Network parameter:                             <ul style="list-style-type: none"> <li>• Operating mode: LAN/Wireless access point</li> <li>• Wireless transmission band: IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz</li> <li>• Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x</li> <li>• Network connection standard: 10 / 100 Mbps, auto MDI/MDI-X</li> </ul> </li> <li>- Radio interface: IEEE 802.15.4 2.4GHz radio</li> <li>- Power supply:                             <ul style="list-style-type: none"> <li>• 24VDC, together with ABB power adaptor</li> <li>• PoE(Power over Ethernet)</li> </ul> </li> <li>- Environment:                             <ul style="list-style-type: none"> <li>• Temperature: -10°C to +45°C</li> <li>• Protection type: IP30</li> <li>• Vandal proof: IK07</li> <li>• Humidity: 0 to 95%, non-condensing</li> </ul> </li> </ul>
<b>Version</b>	Lite (Only for DES)	Pro (For DES and AccessControl)
<b>Article no.</b>	D04013	D04011
<b>Order no.</b>	2TMA130260W0001	2TMA400260W0002



#### RF repeater

<b>Description</b>	RF repeater is for indoor applications, wireless extension of radio range by integrated antenna. No network knowledge is required for the wireless network. The RF repeater is available in the elegant housings and can be combined with all VDE boxes, and also can be surface-mounted on the wall.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Scale up system topology easily</li> <li>- Easy and fast configuration</li> <li>- Different power solution to meet different requests</li> <li>- Firmware update remotely</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimension: 90 x 90 x 28 mm</li> <li>- Radio interface: IEEE 802.15.4 2.4GHz radio</li> <li>- Power supply: 24 V DC, together with ABB power adaptor</li> <li>- Environment:                             <ul style="list-style-type: none"> <li>• Temperature: -10°C to +45°C</li> <li>• Protection type: IP30</li> <li>• Vandal proof: IK07</li> <li>• Humidity: 0 to 95%, non-condensing</li> </ul> </li> </ul>
<b>Version</b>	White
<b>Article no.</b>	D04021
<b>Order no.</b>	2TMA400260W0003

## Access Control

### ABB-AccessControl - Accessories



#### RF/IP Gateway

<b>Description</b>	RF/IP Gateway is an easy solution to connect the cylinders to IP platform, so it is one important device to extend the AC solution from residential to commercial, support more than 16 doors, even there is long distance between each door.
<b>Features</b>	<ul style="list-style-type: none"> <li>- Scale up wireless access control system topology easily               <ul style="list-style-type: none"> <li>• One RF/IP gateway can support another 16 cylinders</li> <li>• Maximum 64 gateways can be connected</li> </ul> </li> <li>- Easy and fast configuration               <ul style="list-style-type: none"> <li>• Bluetooth wireless installation with cylinders</li> <li>• Graphical visual configuration through SmartAP web-based interface, pair and link the locks simply and fast</li> </ul> </li> <li>- Different power solution to meet different requests               <ul style="list-style-type: none"> <li>• PoE solution</li> <li>• 24VDC plug-in power solution</li> </ul> </li> <li>- Firmware update remotely through SmartAP and APP</li> </ul>
<b>Technical details</b>	<ul style="list-style-type: none"> <li>- Dimension: 107 x 109 x 30</li> <li>- Radio interface: IEEE 802.15.4 2.4GHz radio</li> <li>- Power supply: 24 V DC</li> <li>- Environment:               <ul style="list-style-type: none"> <li>- Temperature: -10°C to +45°C</li> <li>- Protection type: IP30</li> <li>- Vandal proof: IK07</li> <li>- Humidity: 0 to 95%, non-condensing</li> </ul> </li> </ul>
<b>Version</b>	White
<b>Article no.</b>	D04031
<b>Order no.</b>	2TMA400260W0013



#### Tag

<b>Description</b>	The tag is based on RFID chip technology. Available in electronic cylinders and ABB outdoor readers. With a special encryption to ensure secure controlled access.		
<b>Features</b>	<ul style="list-style-type: none"> <li>- 13.56 MHz contactless RFID identification, DESfireEV1 (256, 2K,4K,8K bytes)</li> <li>- Compatible in all ABB devices</li> <li>- Multi-color design</li> <li>- Modern design with ID-number layout</li> <li>- Waterproof</li> </ul>		
<b>Technical details</b>	- 13.56MHz, Mifare DESfireEV1 chip		
<b>Version</b>	White	grey	black
<b>Article no.</b>	D081WH-04	D081GY-04	D081BK-04
<b>Order no.</b>	2CKA008300A1001	2CKA008300A1002	2CKA008300A1004



#### Maintenance tool

<b>Description</b>	A professional tool to dismantle / fasten the knob, to install in new door, or replace battery	
<b>Technical details</b>	- 13.56MHz, Mifare DESfireEV1 chip	
<b>Article no.</b>	D080MT-04	D080MC-04
<b>Order no.</b>	2CKA008300A1006	2CKA008300A1007

## Access Control

### ABB-AccessControl - Accessories



#### Maintenance Card

<b>Description</b>	Maintenance Card to activate the digital cylinder into the smart access point.
<b>Article no.</b>	D080MC-04
<b>Order no.</b>	2CKA008300A1007



#### Construction Card

<b>Description</b>	Construction to control the digital cylinder in factory mode.
<b>Article no.</b>	D080CC-04
<b>Order no.</b>	2CKA008300A1012



#### Battery pack LR1

<b>Description</b>	Spare part, batteries already included in the digital cylinder package.
<b>Article no.</b>	D080BT-03
<b>Order no.</b>	2CKA008300A1013

**Additional information**

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**More information**

