

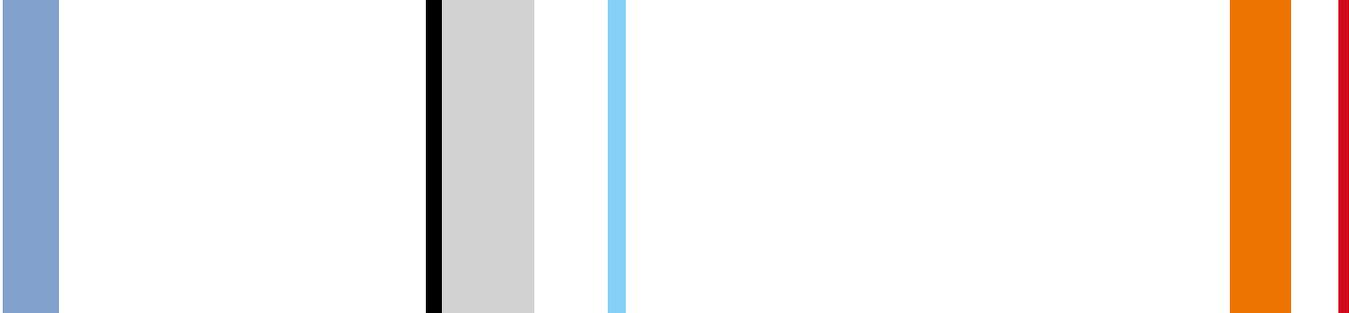
«eAccess»  
The electronic access system



since 1863

**Glutz**





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## Glutz – secure and convenient solutions for people and buildings

The world is changing, as is the way we do business and how we live. There is increasing demand from our customers for investment security, sustainable construction, connected homes and individual living services.

The driving forces behind these development are trends such as digitalisation, increased social mobility and a growing need for security, but also an ageing society. This in turn calls for secure and convenient access solutions that are highly flexible too.

The Glutz portfolio meets all these requirements perfectly. It is tailored to meet the challenges of the future and thus enables us to provide solutions for secure and convenient access.

As an internationally renowned company, Glutz has been combining craftsmanship, technology, design and customer service for over 155 years to provide complete solutions for secure and convenient access.

In-house development and production of locks, fittings and access systems ensures consistent door solutions and enables us to implement individual requirements.



## The wireless online access solution: Simple, secure and convenient

Working and living without boundaries – convenient and secure. That is what the «eAccess» wireless online access system offers you.

Controlled access to all rooms in a building with just a few clicks of the mouse and doors opening for authorised people – «eAccess» by Glutz makes all this possible.

As a virtually unrestricted, scalable and comprehensive solution, the system can be adapted seamlessly to meet all your needs and fit any structural conditions, be it in a new or an existing building.



## Suitable for every building

**The «eAccess» wireless online access system integrates seamlessly into any commercial, public or residential building.**

Key features of the system are the easy PC-based programming, efficient user management and simple access control using time or location-restricted authorisation options. Thanks to plug-and-play, «eAccess» can be installed quickly and easily.

The flexible «eAccess» access system can also be combined quite easily with systems from third-party providers.

### **The advantages:**

#### **For planners:**

A partner for all door solutions. «eAccess» can be used in new builds or existing buildings.

#### **For operators:**

Smart programming for access points. Minimal administrative effort. Modifications are quick and easy to implement. High level of usage transparency for the installed equipment.

#### **For users:**

Convenient and intuitive to operate with minimal effort.

#### **For installers:**

Quick and easy installation (plug-and-play). Easy integration with third-party systems.



## Bespoke solutions

**«eAccess» by Glutz provides the perfect access solution, whatever the requirements, size or situation, for commercial and administrative buildings or for luxury and high-end residential buildings.**

**«eAccess» means security and convenience for every kind of building:**

- ▶ Care homes, hospitals
- ▶ Small and medium-sized companies
- ▶ Administrations and local authorities
- ▶ Educational facilities, schools and nurseries
- ▶ Industrial and service companies
- ▶ Apartment buildings
- ▶ Dwellings

**«eAccess» means security in every respect:**

**Access:**

The standard versions of all «eAccess» components can be parametrised to the desired performance criteria. The wireless connection is secure, thanks to encrypted data transmission.

**Investment security:**

Thanks to its flexible expansion options, the system offers maximum investment security, starting from the basic version. It can be upgraded at any time.

**Usage transparency:**

Individual access authorisations can be time restricted and all the activity for every door can be recorded and traced. The programming and management of the authorisations varies according to individual needs.

**Standards:**

All the elements and technologies used by «eAccess» meet the highest requirements set down in the EN standards.

## Convenient living

**With «eAccess», unlocking doors is convenient and contact-free. It's the ideal solution for any lifestyle – even for people with limited mobility. «eAccess» opens doors and gates.**

Whether it's a house, apartment, driveway, garage or letterbox, all doors can be opened quickly and easily with a choice of different identification media. The identification devices respond to the G-Line clip, the G-Line card, the «mAccess» Pro design key or a code.

### **Practical**

Tradespeople, care workers, parcel carriers and other authorised people can be issued with time restricted access to selected rooms while you are away.





## System overview in the home



**Apartment door:** E protection fitting, ES-3;  
open with identification media.



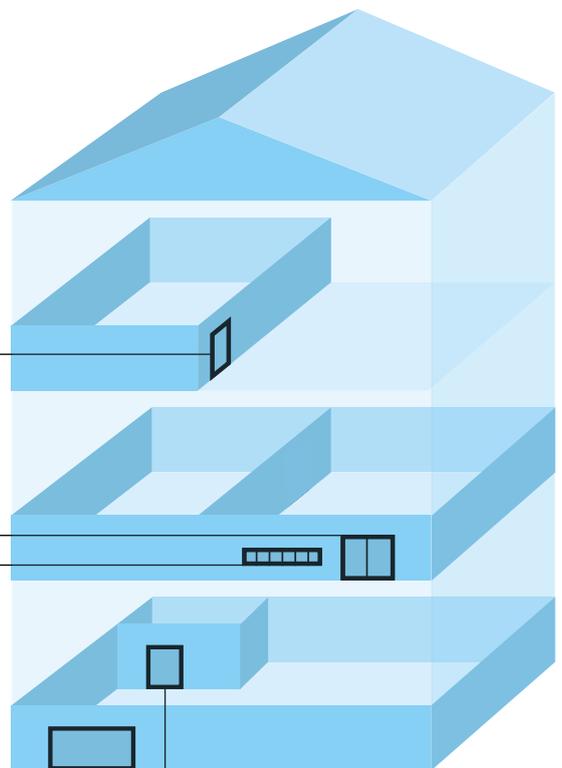
**Entrance door:** E protection fitting, ES-1;  
open with identification media.



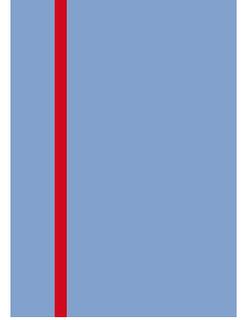
**Parcel locker system:** E-reader, RFID/code;  
open with identification media or code.



**Access to underground garage:** E-reader RFID/code;  
open with identification media or code.

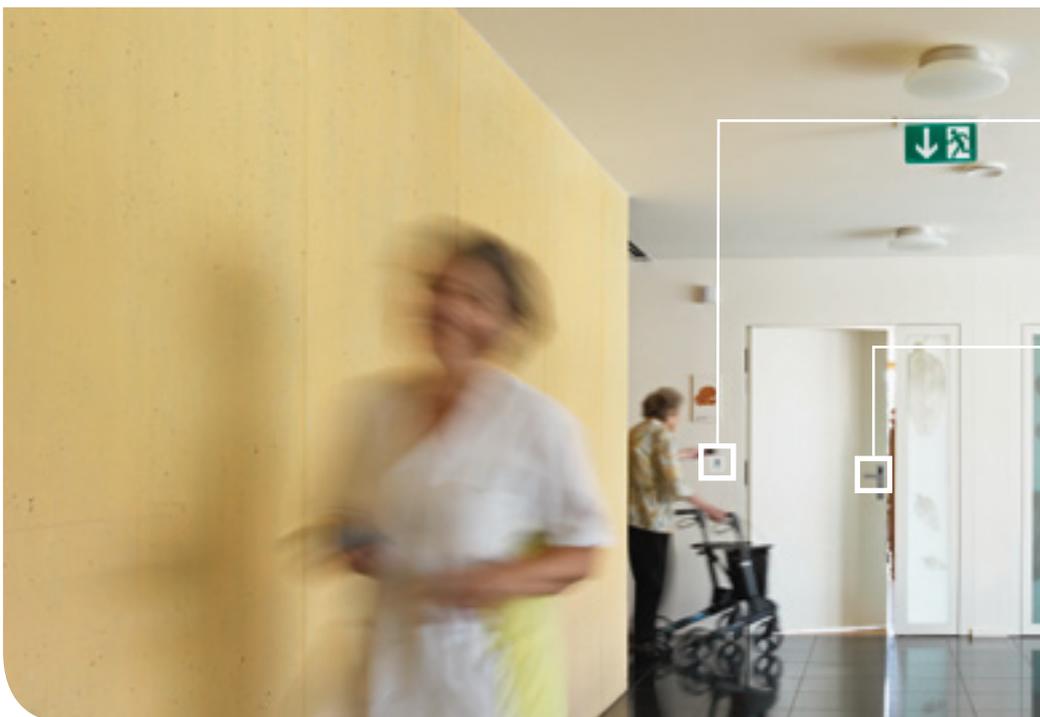


**Laundry room:** E organisation fitting;  
open with identification media.



*E protection fitting, ES-3*

*Easy access for authorised residents*



*E-reader RFID/code*



*E organisation fitting*

*Living without barriers, at home or in a special facility*

## Work securely and flexibly

**Be it a commercial or an administrative building, the security requirements for people and property are ever increasing. «eAccess» is the perfect solution to meet these needs. It controls the access of each individual user – by time and location, customised to their respective requirements.**

### **Simple programming**

With «eAccess», specific access authorisations are created quickly and easily for each individual employee, resident, contractor or visitor. All identification devices and media used by the system can be programmed and controlled centrally from one PC. The definitions for who is permitted to enter, when and where, are created in no time at all. Just seconds later, the office door recognises the right employee, the E-reader outside the server room recognises the IT technician or the care home bedroom door recognises the nurse. Temporary access authorisations for the likes of meeting rooms can be programmed just as easily.

### **Customised security**

«eAccess» is customised precisely to the particular security requirements. Each door and each access point in the building has an individual risk profile. High-security zones are given an E protection fitting and doors with a lower risk are equipped with the E organisation fitting. The identification media are also selected in relation to the level of risk, ranging from the G-Line clip, G-Line card, «mAccess» Pro design key, right through to just using a code. The «eAccess» identification devices record all activity. If necessary, the stored data can be used to reconstruct specific events.



## System overview in the workplace



**Office door:** E organisation fitting;  
open with identification media.



**Training room:** E protection fitting, ES-1;  
open with identification media.



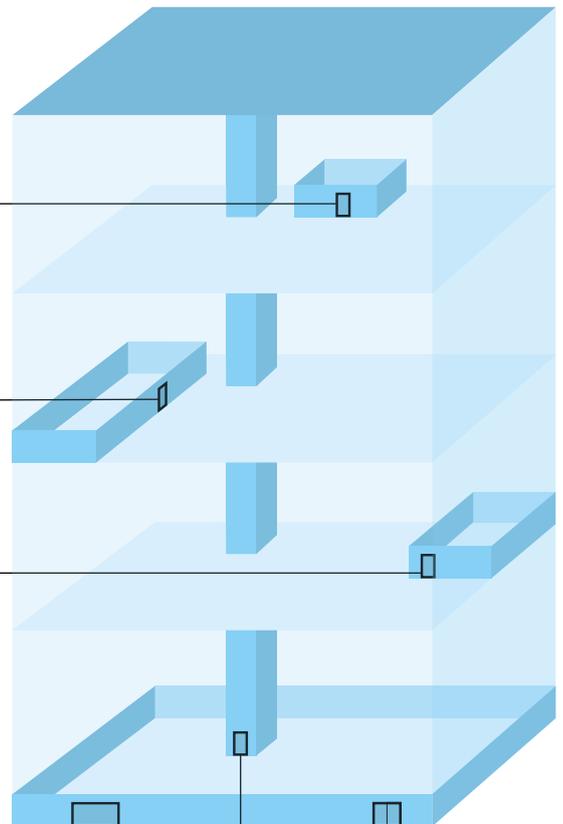
**Server room:** E half-thumbturn cylinder;  
open with identification media.



**Access to underground garage:** E-reader RFID/code;  
open with identification media or code.



**Lift:** E-reader RFID/code with selective floor control;  
control with identification media or code.



**Entrance door:** E-reader IP55 RFID/code;  
open with identification media or code.



*NET Gateway*

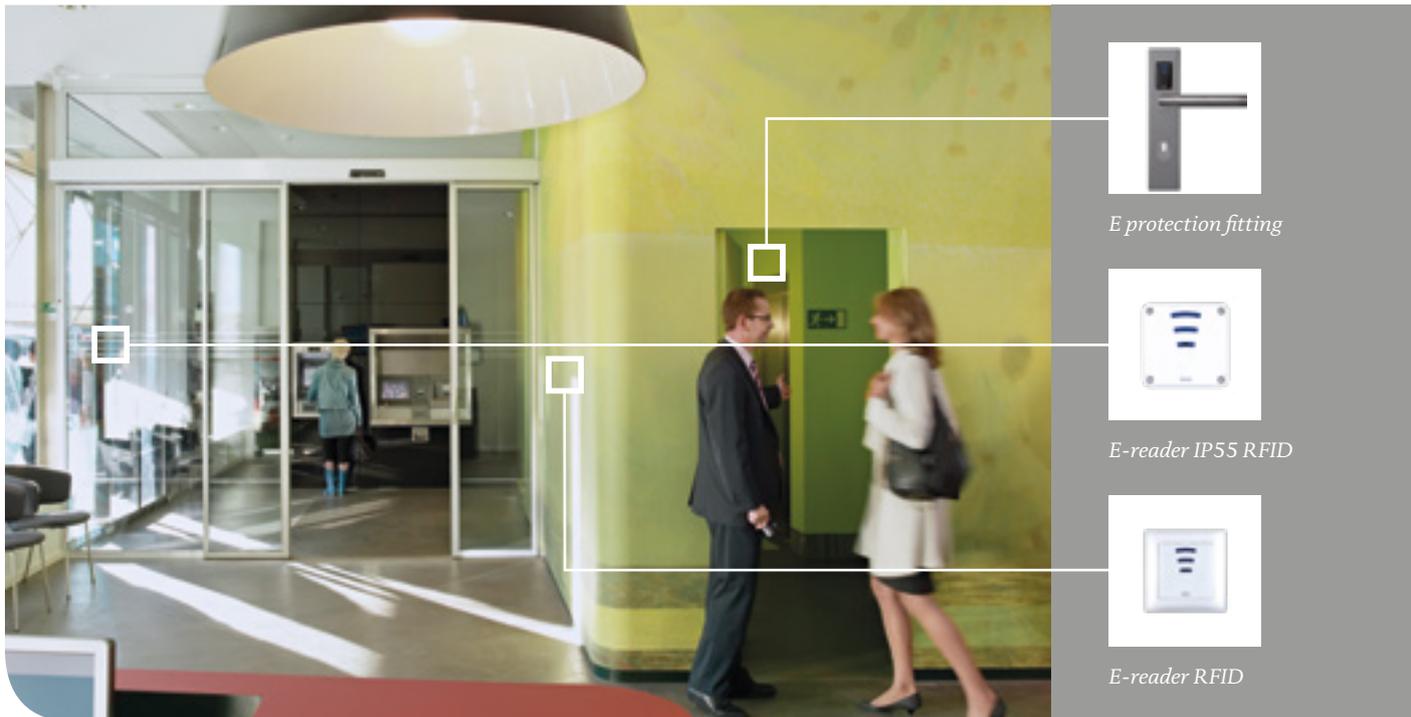


*E organisation fitting*



*E-reader RFID/code*

*Efficiency meets convenience: one system for the whole building*



*E protection fitting*



*E-reader IP55 RFID*



*E-reader RFID*

*Glutz «eAccess» – ideal for security sensitive companies*

## Simple programming

It has never been easier to personalise access. Just one PC, one system card and a NET wireless dongle is all you need to programme «eAccess» throughout an entire building, regardless of whether it is a residential or an office building. For large buildings or multiple locations, the programming is done via NET Gateways and NET Repeaters.

The Glutz «eAccess» software immediately detects all components using plug-and-play. The desired characteristics can be assigned with just a few clicks.

Wireless programming in real time: just plug the NET wireless dongle into a USB port on your PC and the Glutz «eAccess» software will record any «eAccess» components within wireless range of the dongle. The individual identification devices can now be programmed quite easily with the user-friendly interface in the «eAccess» software. The input is sent to the identification devices by the NET wireless dongle. NET Repeater Plus units can be used to cover distances in excess of 30 metres.

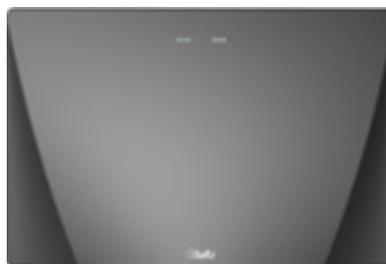
### Networking over long distances

Using the NET Gateway, larger buildings or several offices can be networked to form one efficient over-all system. The data is sent to the NET Gateways via LAN/WLAN (TCP/IP). They then forward the signals wirelessly to the local «eAccess» components. In this way, the access systems in all locations are controlled from one PC.



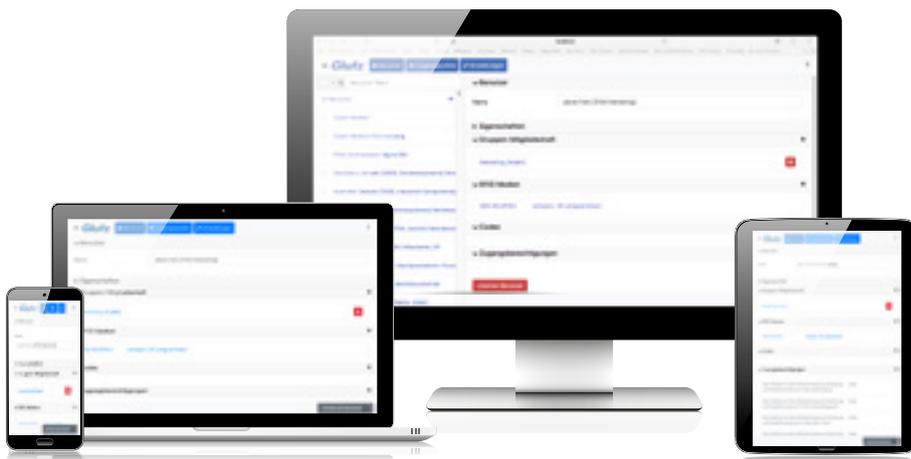
### NET wireless dongle:

*Local wireless access to the wireless online access system*



### NET Gateway:

*Network access to the wireless online access system*



**«eAccess» software:**

*All «eAccess» components can be configured and controlled using the selected software.*

# Intelligence in the palm of your hand

«eAccess» has the right identification media to suit every need: a G-Line clip, a G-Line card, an «mAccess» Pro design key or a code – just select the one you want and open up a whole new dimension in convenient access.

## Media detection made simple

The «eAccess» software automatically reads the identification media via the NET wireless dongle or other chosen identification device.

## Lost your identification media?

No problem – in «eAccess», the access rights are stored on the «eAccess» components, not on the access medium itself. The authorisations can be deleted with just a few clicks of the mouse and then immediately updated wirelessly on the identification devices. New users receive their access rights in the same way.

## Additional useful features

People with limited mobility often need more time to access places. A criterion that increases this time accordingly can be stored on their identification media. Glutz access media are truly multi-talented – they can also communicate with food vending machines or with existing time recording and production data acquisition systems.



### G-Line clip:

*The standard key fob with RFID technology*



### G-Line card:

*The standard ID card with RFID technology*



### «mAccess» Pro design key:

*The standard key with RFID technology*

## Secure and reliable technologies

«eAccess» also offers security for your investment, as Glutz exclusively uses technologies that will still be effective and secure in the future. Thanks to their precise data transmission and maximum security, they provide protection against unauthorised access.

### Wireless online technology

The «eAccess» wireless components communicate on the 868 MHz frequency (industry standard). The encrypted data transmission (3DES) ensures maximum security. Despite wireless communication, the «eAccess» components are distinguished by their very low energy consumption, as the devices only send data whilst updating. Emission levels are several times lower than those of a smartphone.



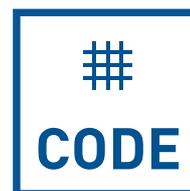
### RFID

Radio frequency identification ensures automatic identification by using electromagnetic waves. «eAccess» uses the 13.56 MHz Mifare standard (Mifare DESFire EV1/EV2). The 3DES encryption guarantees maximum security.



### Code

RFID/code E-readers have a code keypad in addition to RFID. The code length can be selected freely between 1 and 12 digits.



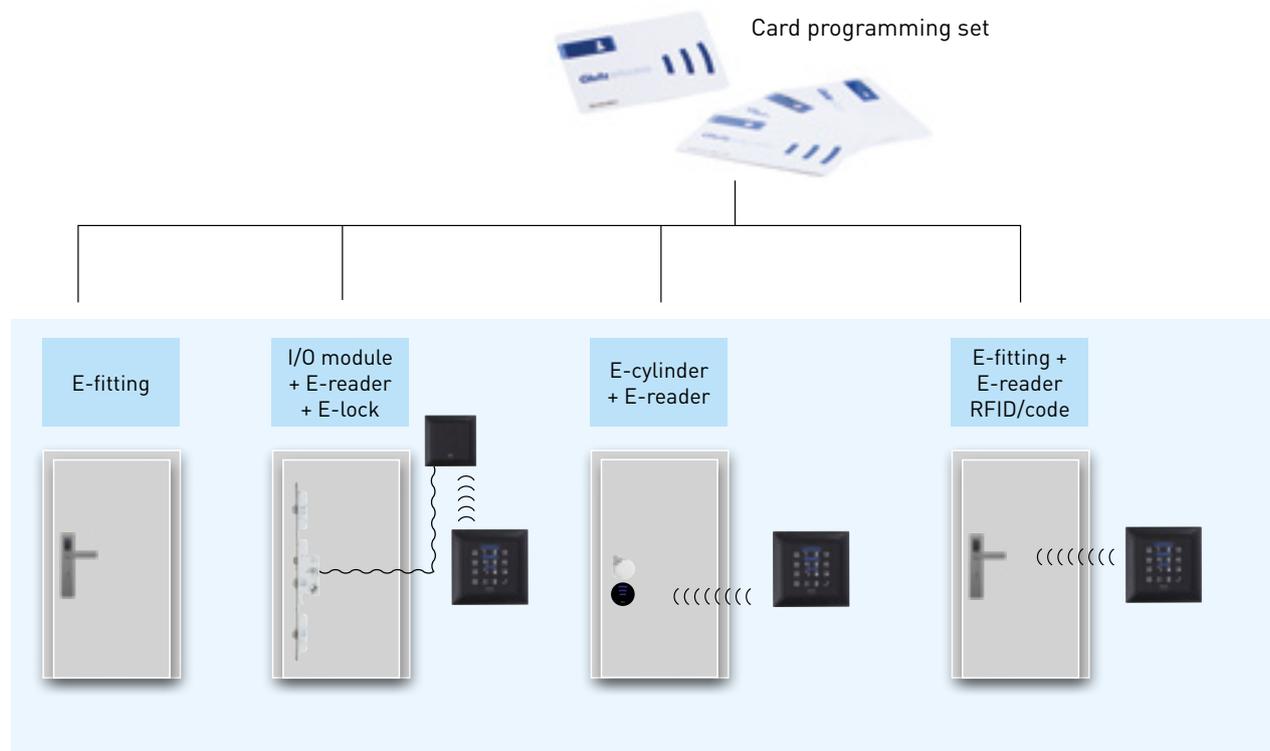
## For smaller organisations or dwellings

**Bespoke solutions: whether it's for high-end residential buildings, commercial and administrative buildings or for nursing homes, care homes and hospitals – the «eAccess» system by Glutz offers the ideal solution for convenient and secure access.**

The programming and management of the «eAccess» components is quick, easy and determined by the size of the property as well as individual needs. There are various programming methods available for doing this.

### Programming using cards

Programming using cards is suitable for smaller solutions. It does not require a PC or any software. The user media can of course, be programmed and individually managed on all «eAccess» components.

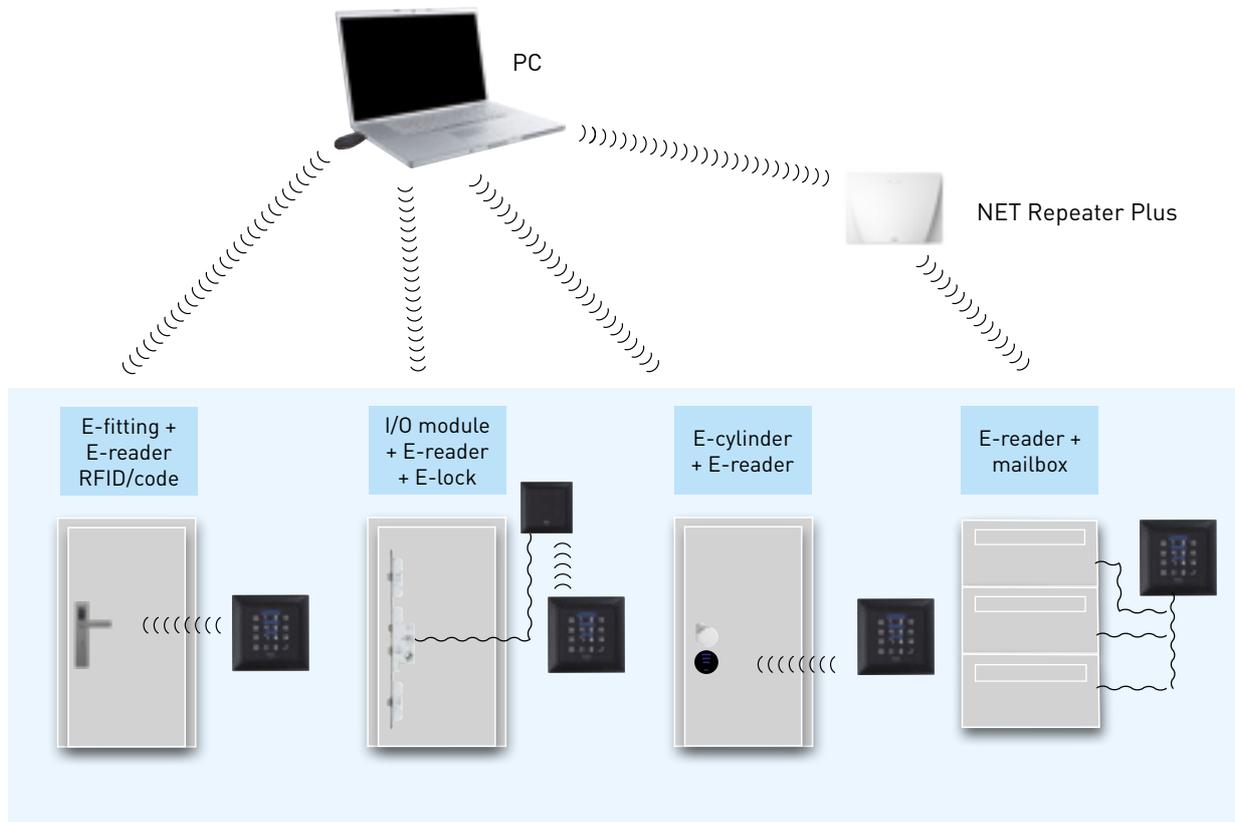


))))))))) Wireless transmission (868 MHz) up to 30 m  
 ~~~~~ Cable transmission (RS485)

# For medium-sized organisations, commercial or residential buildings

## Software-based programming – one location

For solutions at a larger location, «eAccess» components can be programmed and managed wirelessly using a PC and the NET wireless dongle. Distances over 30 metres and between different floors can easily be made accessible by using NET Repeater units.



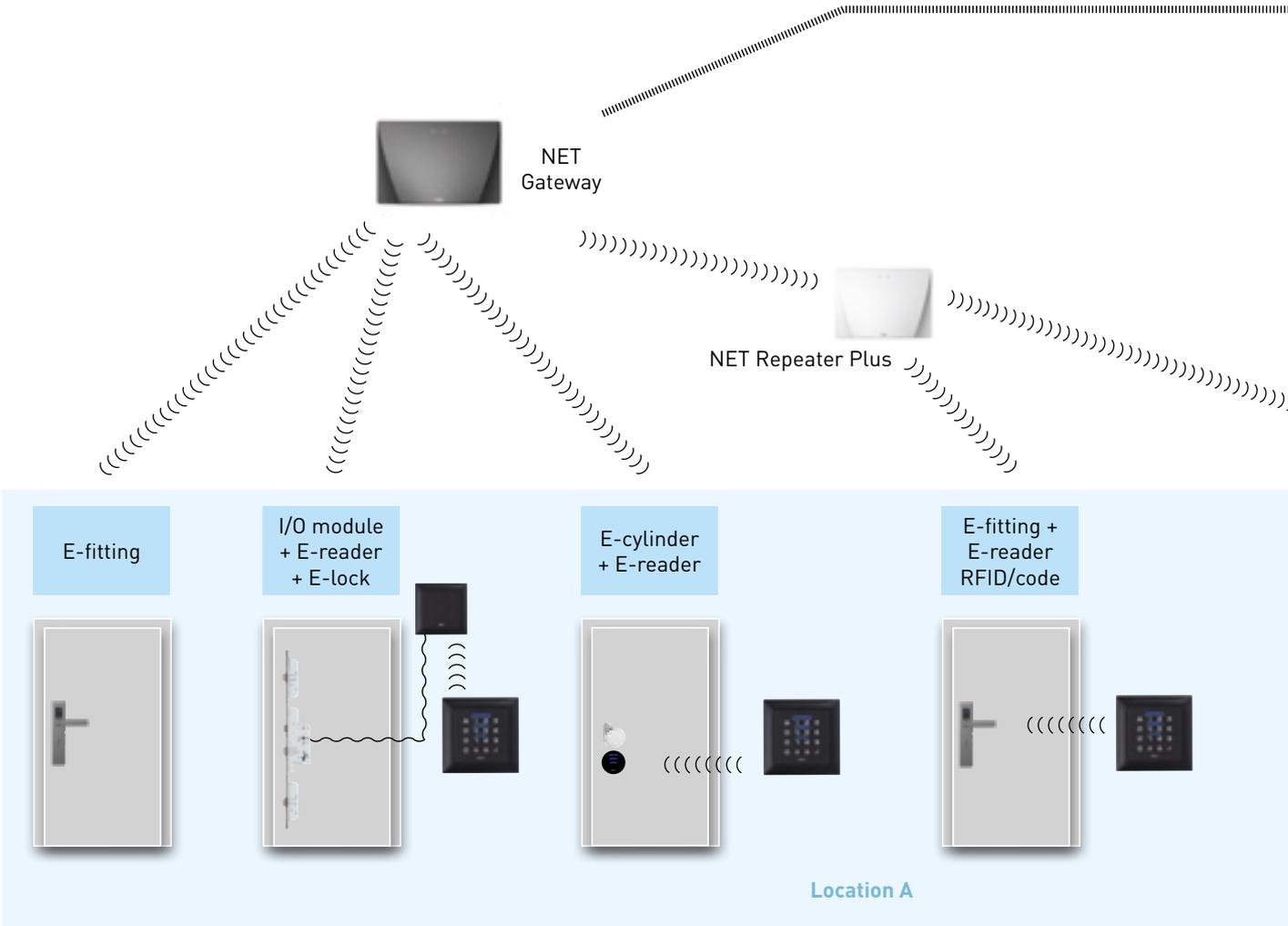
))) Wireless transmission (868 MHz) up to 30 m  
~~~~~ Cable transmission (RS485)

# For bigger organisations or commercial buildings

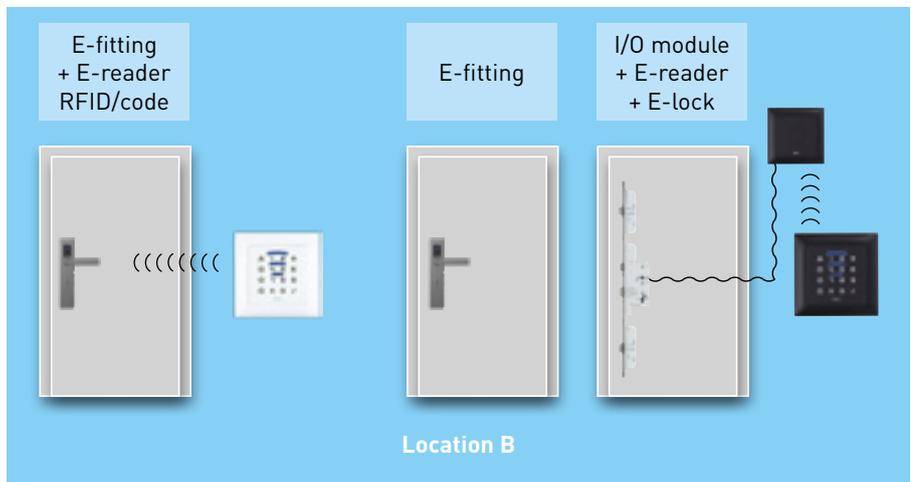
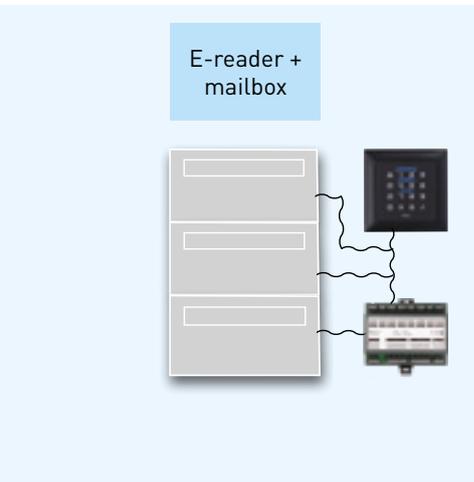
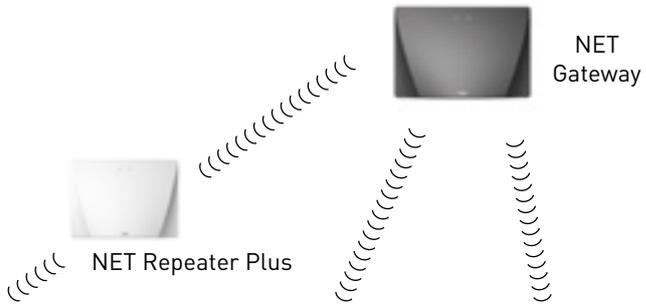
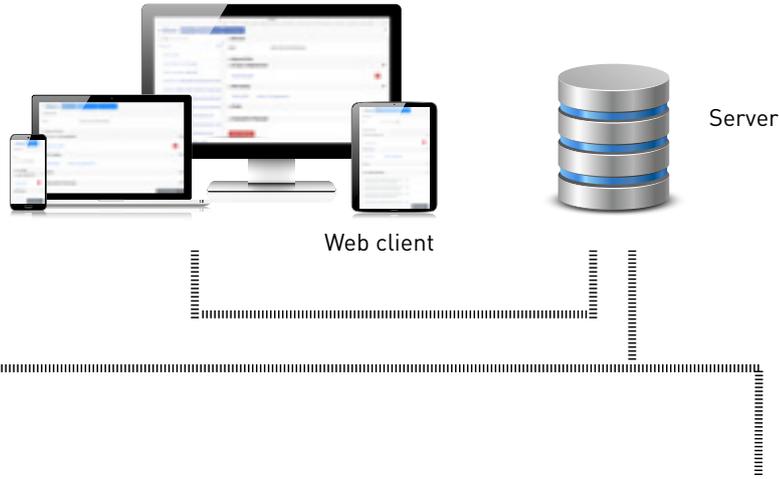
## Programming for larger and decentralised locations

The «eAccess» components in the main building are configured wirelessly using a PC – just like SMEs or residential buildings. Programming the system via remote access is easy and cost-effective also for remote locations in larger organisations.

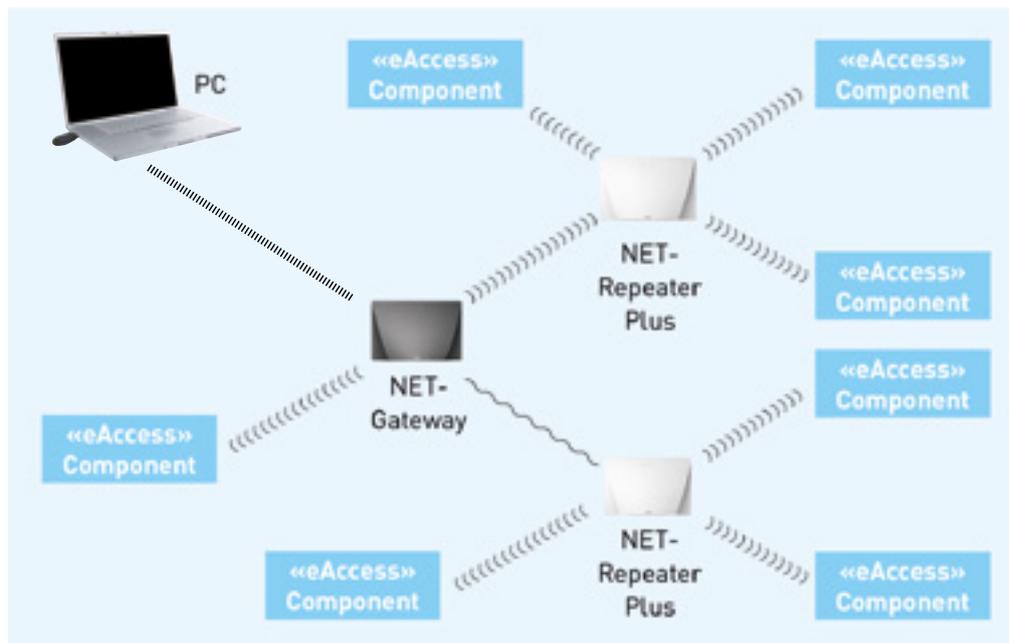
For programming components in remote locations, the system establishes contact with the local NET Gateways via the server and LAN/WLAN (TCP/IP). The high-performance NET Gateways receive the information from the headquarters and forward it wirelessly to the local identification devices.



- )))))) Wireless transmission (868 MHz) up to 30 m
- ~~~~~ Cable transmission (RS485)
- ||||| Transmission via LAN/WLAN (TCP/IP)



## Multipoint capability: controlled access from a PC



- ))))))))) Wireless transmission (868 MHz) up to 30 m
- ~~~~~ Cable transmission (RS485)
- ||||| Transmission via LAN/WLAN (TCP/IP)

**«eAccess» by Glutz offers unrivalled benefits. No other access system is easier to install, programme and operate.**

The «eAccess» NET Repeater Plus and NET Gateways, each with a range of up to 30 metres, communicate with each other and with several other «eAccess» components.

### **The advantage:**

Even in large building complexes, all identification devices can be controlled and programmed via the wireless network from a single PC. This makes the system efficient and cheaper to program and maintain.

**Know what is happening at all times, thanks to bi-directional data synchronisation**

The «eAccess» components are automatically synchronised wirelessly with the software. During this process, amended user rights are loaded onto the «eAccess» components and the event memory, the status of the digital inputs, the battery status and other status data is uploaded to the software.

### **Faults in the wireless network?**

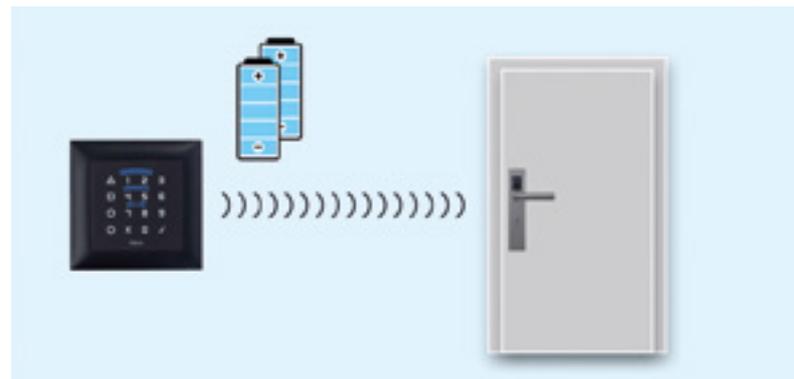
No problem – the identification devices also work reliably in the event of a network failure, as the current authorisations are stored on each individual device. All events are also stored temporarily on the device and are automatically available in the software following the malfunction.

## Advantages of battery operation

### Wireless from E-reader to E-fitting, thanks to pairing

- ▶ Easy addition of a code to an existing E-fitting
- ▶ Unique connection of RFID/code E-reader with an E-fitting using pairing
- ▶ Both devices are battery-operated, so there's no need for complex cable installation or expensive fitting of a motorised lock

This means that when you return home after playing sport, you only have to enter a code to access the building. Or a temporary code can be assigned to a tradesperson, so that your washing machine can be repaired while you're out. Or your neighbour can water the plants without needing an identification medium.



### Effortless retrofitting due to battery operation

Most «eAccess» identification devices work in battery mode.

#### The advantage:

Wireless installation makes retrofitting during building conversions and renovations extremely easy. Energy consumption is also low: on average, the batteries only need to be changed every three years.

### The advantages of «eAccess» at a glance:

- ▶ Complete solution from a single source: from the mechanics to the electronics
- ▶ Secure and modern technologies: RFID, code, wireless
- ▶ System programming for small organisations or dwellings: simple handling as a result of card programming
- ▶ Software programming for commercial and residential buildings: wirelessly from the PC directly to the «eAccess» components
- ▶ Simple wireless installation: battery mode and plug-and-play
- ▶ For each risk profile: protection and organisational components

# Performance for programming

## Performance characteristics

|  |  |
|--|--|
| <b>Glutz «eAccess»</b><br>Communication<br>RFID technology   | Glutz Wireless Access 868 MHz, RS485, TCP/IP<br>Mifare DESFire EV1/EV2, 13.56 MHz  |
| <b>Identification devices</b><br>RFID media<br>Number of access authorisations<br>Time function<br><br>Events log<br>Operating modes<br>Programming<br>Communication<br><br>Encryption<br>Battery life | Mifare DESFire EV1/EV2 and ISO-14443-A (UID)<br>3,000 to 15,000 dynamic<br>Up to 126 time profiles, start and end date, automatic daylight savings time adjustment, free passage time, holiday calendar<br>Min. 3,000 entries (ID media, date, time, event)<br>Factory, Single<br>Cards or software<br>Data exchange takes place via Glutz Wireless Access (868 MHz) or cable (RS485)<br>3DES/AES<br>50,000 cycles or up to 3 years in standby, at room temperature with lithium batteries |

## Programming media



|  |   |
|--|---|
| <b>Card programming</b><br>Function<br>Security<br>Operating modes   | Software-independent programming of devices<br>Authority over system card<br>Single (no time options possible)  |
| <b>Software programming</b><br>Function<br><br><br>Languages<br>Number of media<br>Number of access points<br>Security<br><br>Operating system | Unlimited number of objects, persons and groups of persons, ID media, location, building and access point management, access rights, time profiles, events log, device configuration, automatic wireless network layout, multi-client capability, individual user rights, import/export functions, reporting functions, universal interfaces<br>DE, FR, EN, IT, NL<br>500,000<br>100,000<br>NET wireless dongle and system card or software licence, access with individual login<br>Windows, Mac OS, Linux |

## Identification media for convenient access



### G-Line clip

Mifare DESFire EV1/EV2 4 kB, 13.56 MHz  
Third-party applications are supported  
White and black, design: G-Line  
Waterproof to 3 metres



### G-Line card/C-Line card

Mifare DESFire EV1/EV2 4 kB, 13.56 MHz  
Third-party applications are supported  
Credit card format  
Design: G-Line or C-Line (customer-specific)



### «mAccess» Pro design key

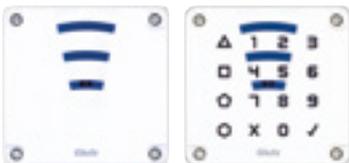
Mifare DESFire EV1/EV2 4 kB, 13.56 MHz  
Third-party applications are supported  
Reversible key with coloured design bow and RFID transponder



### IP40 RFID/code E-reader

Identification  
Power supply  
Housing  
Colour  
Inputs/outputs  
Protection class

RFID/code  
Battery or mains operation (12–24 VDC)  
Surface-mounted and flush-mounted  
White or black  
2x relay and 2x input (in mains operation)  
IP40



### IP55 RFID/code E-reader

Identification  
Power supply  
Housing  
Colour  
Inputs/outputs  
Protection class

RFID/code  
Battery or mains operation (12–24 VDC)  
Surface-mounted  
White or black  
2x relay and 2x input (in mains operation)  
IP55



**E organisation fitting**

Identification  
Layout

Handle

Power supply

Variants

Protection class

Approvals

Area of application

RFID

Reader unit, battery, analysis electronics and mechatronics located externally

External handle engaged, freewheeling, can be switched between DIN left hand or DIN right hand

Battery operation

Public, WC

Steel, ES1

EN 1906, Class 4, DIN 18257

Exterior (ES1) and interior doors



**E protection fitting**

Identification media  
Layout

Handle

Power supply

Variants

Protection class

Approvals

Area of application

RFID

Battery and analysis electronics located internally, reader unit located externally

External handle engaged, blocked handle, can be switched between DIN left hand or DIN right hand

Battery or mains operation

Public, private

Steel, ES1, ES3

EN 1906, Class 4, DIN 18257

Exterior and interior doors



**E organisation fitting (short)**

Identification  
Layout

Handle

Power supply

Variants

Protection class

Approvals

Application area

RFID

Reader unit, battery, analysis electronics and mechatronics located externally

External handle engaged, freewheeling, can be switched between DIN left hand or DIN right hand

Battery operation

Public

Steel

EN 1906, Class 4

Interior doors



### E double thumbturn cylinder EM

Identification

Layout

Version

Special functions

Protection class

Approvals

Area of application

RFID

Exterior E thumbturn with access control function and battery, interior with mechanical thumbturn

Round (RZ) or Europrofile (PZ)

Freewheeling function (FZG), anti-panic function (FAP) for profile cylinders

IP65

EN 15684

Interior/exterior doors



### E half-thumbturn cylinder

Identification

Layout

Version

Special functions

Protection class

Approvals

Area of application

RFID

Exterior E thumbturn with access control function and battery

Round (RZ) or Europrofile (PZ)

Freewheeling function (FZG), anti-panic function (FAP) for profile cylinders

IP65

EN 15684

Interior/exterior doors, key switches, cabinet doors, tubular safe



### E double cylinder EE

Identification

Layout

Version

Special functions

Protection class

Approvals

Area of application

RFID

Exterior E thumbturn with access control function and battery

Round (RZ) or Europrofile (PZ)

Freewheeling function (FZG), anti-panic function (FAP) for profile cylinders

IP65

EN 15684

Interior and exterior doors



### E padlock

Identification

Layout

Special functions

Protection class

Approvals

Area of application

RFID

Exterior E thumbturn with access control function and battery

Freewheeling function (FZG), anti-panic function (FAP) for profile cylinders

IP65

EN 15684

Barrier systems, roller shutters, warehouses and archive containers

## Purposeful control – simple communication



### I/O extender 8R8I

Function  
Inputs/outputs  
Communication  
Power supply  
Installation method

Selective control of locker and lift systems  
8x relay, 8x input, cascadable 8/16/24/32  
RS 485 2-wire  
Mains operation (12–24 V DC)  
DIN rail



### I/O module 2R2I

Function  
Inputs/outputs  
Communication  
Power supply  
Installation method

Control of motorised locks, electrical consumers  
Receipt of electrical switching commands, can be used as simple NET Repeater Plus, range up to 10 m  
2x relay and 2x input  
Glutz Wireless Access (868 MHz), RS485 2-wire  
Mains operation (12–24 V DC)  
Surface-mounted and flush-mounted



### NET wireless dongle

Function  
Interface

For programming of devices via Glutz Wireless Access (868 MHz)  
Reading and writing to RFID media  
Carrier of safety-related data  
USB interface



### NET Repeater Plus

Function  
Installation  
Communication  
Power supply  
Colours

Wireless range extension with repeating, range up to 30 m  
No network knowledge required  
Glutz Wireless Access (868 MHz); RS485 2-wire  
Mains operation (12–24 V DC)  
Black or white



### NET Gateway

Function  
Communication  
Power supply  
Colours

Wireless range extension via Ethernet network (TCP/IP)  
Range up to 30 m  
Glutz Wireless Access (868 MHz); RS485 2-wire  
PoE or mains operation (12–24 V DC)  
Black or white



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