



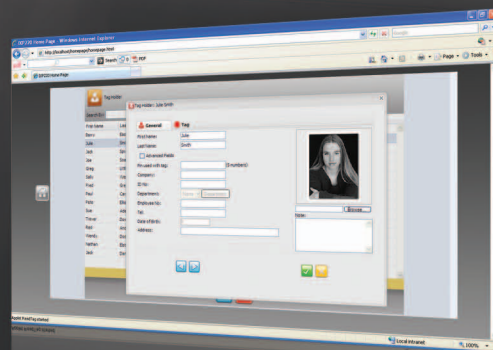
SITE CONFIGURATION



WEB REPORTS



TAGHOLDER DETAILS



WEB TAG ENROLMENT

IXP220 Software

The following modules are available in the IXP220 Software Suite:

- Base Application (support for up to 4 doors)
- Base Application (support for up to 32 doors)
- IXP220 Full Access (support for up to 256 doors)
- Impro Management (building management)
- Impro Elevator (elevator control)
- Impro Touch (biometric enrolment)
- Graphic User Interface
- Alarm Monitoring
- Web-Based Modules for: Employee Tag Enrolment, Visitor Tag Enrolment, Reception Door Control and Reporting

System Parameters

- Designed for residential and small, medium and large commercial sites
- Up to 10 000 Tags per system
- Up to 256 doors APB per System
- Up to 100 000 Buffered Transactions per Controller
- Third party hardware integration
- 4 feature Models

Key Features

- 100% redundant off-line operation
- Networkable hardware and software on LAN or WAN
- SQL compatible open architecture client / server database
- Windows XP Pro and Vista (Business/Ultimate) compatible
- Multiple language translation facility
- Ease of use modality configured expansion options

System Related Features

- Card printing
- Time patterns
- Anti-passback control
- Tagholder search
- Dial-back Alarm Monitoring
- Scheduler
- Remote Site Monitoring
- Alarm Arming
- Power Control
- Batch enrolment and printing of tags
- Web-based Employee and Visitor Tag Enrolment
- Tag location monitoring
- Integrated Biometric Enrolment
- Transaction Viewer
- APB Across Multiple Tag Types
- System Redundancy
- Graphics Designer
- Daylight Saving

Seamless Integration

- Biometrics
- Time and Attendance
- Intrusion

EFFORTLESSLY EXPANDING access control with SEAMLESS scalability

- Fully redundant off-line capabilities
- Up to 256 Anti-passback Doors
- Up to 1 000 Sites per System
- Up to 10 000 Tags per System
- Up to 100 000 Buffered Transactions per Controller
- Web-based reporting
- Up to 8 elevators each with up to 32 floors per Site
- Multiple Site Support
- Building Management and Lift/Elevator Control



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System Specifications



Total Number of Tags per System	10 000	Actions Supported	256
Total Buffered Transactions per controller	100 000	Time Triggered Actions	8
Sites per System	1 000 per host	Tags per Person	4
Controllers per Site	64	Tagholder Access Groups	1
Locations per Controller	32	Elevator / Lifts	8
Readers supported onboard	2	Elevator / Lifts - Floors	32
Doors per Site	256 full APB		



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ACCESS CONTROL

IXP220 The IXP220 offers seamless system scalability, allowing the user to expand the system effortlessly, using the same software suite and hardware throughout. The IXP220 has an incredibly userfriendly configuration, packed full of features. Presented in 4 Models pertinent to various market needs, each pack can be easily upgraded into one of the other models, making system integration & expansion easy and effortless.

Up to **256 Doors**

10 000 tags per system

100 000 buffered transactions (per controller)

The ImproX RS works in conjunction with the ImproX RRA as a Registration Interface that allows registration of tags on the system.

DC

DOOR controllers

All Door Controllers are compatible with the IXP220, and IXP400i Systems and run off the RS485 bus from the IXP220 System Controller. Each Door Controller is compatible with specific Readers. Always select the correct Readers for the chosen Door Controller.



220 SC

SYSTEM controllers

Consisting of a single hardware platform, the IXP220 Controller is available in a mild steel cabinet and is delivered as standard with all hardware components thus enabling full functionality. Communication options include Ethernet, USB, RS485 or RS232 and memory capacity is ensured up to 10,000 tags and 100,000 buffered transactions.

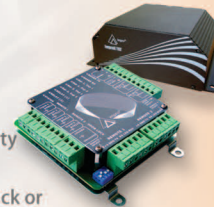


Features include an anti-tamper switch, a general relay for power control or alarm arming and a relay and two digital inputs for Door Open Sensors and Request to Enter / Exit per reader. With four feature models available, addressing market needs from single door to multiple remote sites with up to 256 anti-passback doors, the IXP220 Controller is easily upgraded from a Stand-alone Controller to a System Controller through a soft unlock system.

IMPROX MFT - The Multi-functional Terminal supports either two 125 kHz ImproX Antenna Readers and a third Wiegand Reader (either third-party or ImproX) or two ImproX Multi-mode Readers. The MFT connects directly to the RS485 Terminal Bus. The MFT has on-board intelligence and can operate off-line from the System Controller.



IMPROX TRT - The Twin Remote Terminal is a read-only Terminal with two Reader ports. The ImproX TRT supports either two Multi-mode Readers or two ImproX or third-party Wiegand, TTL or Clock and Data readers. It can control one door in full anti-passback or two doors with single entry.



IMPROX TT - The Twin Antenna Terminal provides access control to one door in full anti-passback mode, or two doors with single entry. The ImproX TT supports two Antenna Readers. Two relays and four digital inputs provide full control of any access application.



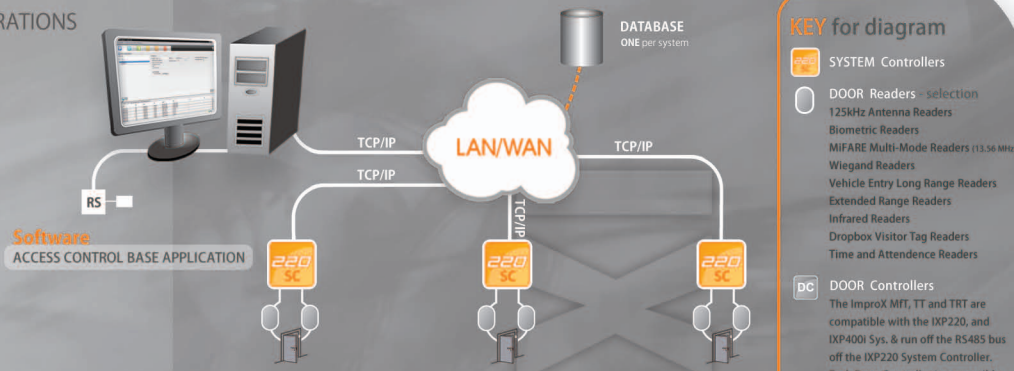
COMMUNICATION CONFIGURATIONS

1 TCP/IP

SOFTWARE

Unlock Options

- Web Tagholder Enrolment
- Web Visitor Enrolment
- ImproTouch
- Multiple Sites
- Card Design and Print
- Elevator Control
- Input & Output Control



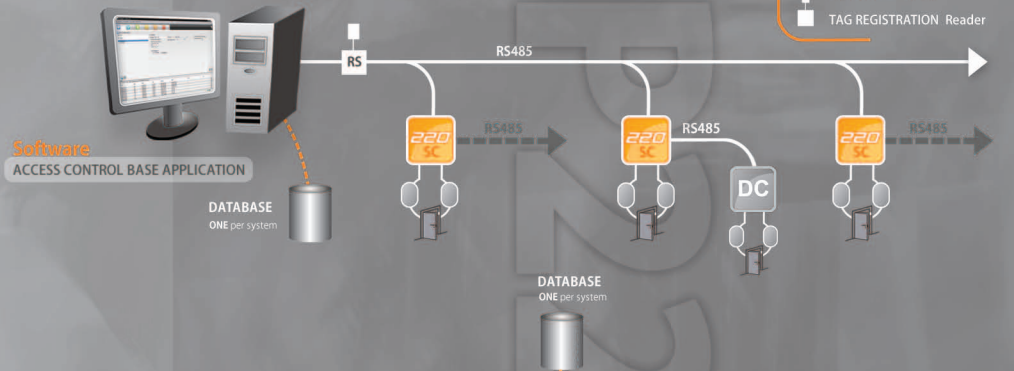
KEY for diagram

- SYSTEM Controllers
- DOOR Readers selection
 - 125kHz Antenna Readers
 - Biometric Readers
 - MIFARE Multi-Mode Readers (13.56 MHz)
 - Wiegand Readers
 - Vehicle Entry Long Range Readers
 - Extended Range Readers
 - Infrared Readers
 - Dropbox Visitor Tag Readers
 - Time and Attendance Readers
- DOOR Controllers
 - The ImproX MFT, TT and TRT are compatible with the IXP220, and IXP400i Sys. & run off the RS485 bus off the IXP220 System Controller. Each Door Controller is compatible with specific Readers.
- TAG REGISTRATION Reader

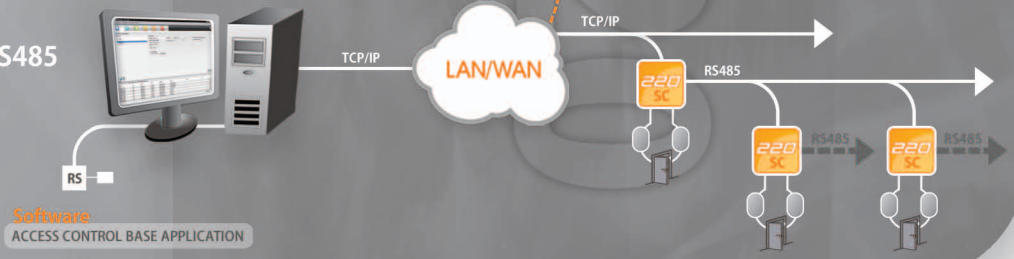
2 RS485

SOFTWARE

- Unlock Options (continued)**
- Graphics Client
 - ImproVision
 - Intrusion Detection
 - Reception Control
 - Time and Attendance
 - Parking Control
 - Operator Security



3 TCP/IP to RS485



ADDITIONAL READER OPTIONS for the IXP220 System

ImproX Time and Attendance (TAR) Reader.



ImproX Infrared Vehicle Transmitter and Receiver.



The ImproX Extended Read Range Readers (ER) are ideally suited for applications where extended passive read range is necessary.



The ImproX Quad Transmitter (QT) is a 4-button hand-held UHF remote control, as well as a passive tag that operates together with the ImproX UHF (RF) Receiver.



INTEGRATION of third-party products



INPUT/OUTPUT Terminals

The O16 and I16 provide 16 outputs and 16 inputs respectively for use in building management, elevator control or Alarm Monitoring. These terminals connect directly to the RS485 Terminal Bus.



BIOMETRICS - Impro Touch - A variety of biometric readers interface with the IXP220



INTRUSION ALARM - Third-party Intrusion Alarm integration via the Controller using digital inputs & relays.



FIRE ALARM - Third-party fire or emergency panel to initiate Emergency Unlock procedure.



IMPROX ANTENNA Readers

There are nine Antenna Readers. Options include plastic and metal housings, keypad and non-keypad, and can be surface mounted or concealed. ImproX Antenna Readers are for indoor or outdoor use. The keypad can be used with PIN-code or Reason code entry. Non-keypad Readers include a single tone buzzer and a status LED. Electronic components are potted, enhancing resistance to vandalism or tampering.



IMPROX MULTI-MODE Readers

ImproX Multi-mode Remote Readers (13.56 MHz) are compact tag readers capable of reading both MiFare and FeliCa tags. They interface with the ImproX TRT.



IMPROX WIEGAND Readers

The ImproX Wiegand Readers interface with the ImproX TRT and support multiple tags including Impro standard tags. 26-bit & 44-bit communication modes are available in one reader.



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EFFORTLESSLY EXPANDING ACCESS CONTROL with **Seamless SCALABILITY**

