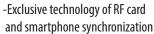




Smartphone Accessible via BLE





Easy to use

- User-friendly mobile App makes lock operation convenient and simple



Maintain all standard features of wireless online and standalone systems



Patented by Passtech

- Feel the tangible benefits of the exclusive system created by Passtech



Self registration via App

- User directly signs up his smartphone to lock after scanning the user card. (Bypass Front Desk)



Multi Credential

- RF card, PIN, Smartphone





Mobile Access Locking System



How it works





Get a user card



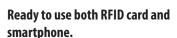
Download Passtech Mobile App.



Reading user card information including security data.













Writing user card information into your smartphone.

Benefits

For user

Unique user experience

- Provide convenience by using a smartphone along with RF card and PIN
- I Easy self registration via mobile app
- Bypass front desk / No waiting in queue
- Multiple credentials
- Easy accessibility through multiple credentials such as smartphone, RF card, and PIN

For facility administration

- | Better operational efficiency
- No rush for registration in front desk / operational cost saving
- Improve customer satisfaction

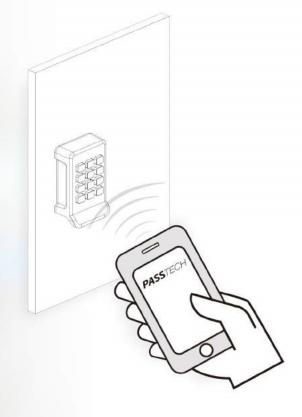
Increased customer loyalty

- Increasing of client membership and revenue

Patent by Passtech

Smartphone is synced with your RFID card. [Patent obtained]

- Only remains valid until RFID card is expired or lost.
- Enhanced security algorithm-AES128
- Better protection by combining AES128 and smartcard security algorithm















Durable and water resistant



Time based operation



Long battery life



Wakeupless



Multi user and multi locker



Custom setting



Stand-alone RFID Locking System



Units: mm (inch)

MAIN FEATURES

| Durable and enhanced design / waterproof

- High impact polycarbonate & waterproof case (IP55)
- Alluminum die-casting latch

| Easy to fit and retrofit

- Engineered to work on all standard material doors : Metal, wood & laminate lockers and caseworks

| Certified by international standards

- FCC, CE, KCC, ADA compliant

Long battery life technology

- Approximately 2 years under normal conditions

Reinforced security

- Unique security key by 3DES security algorithm

| Flexible and convenient operation

- Easy program change or upgrade using RF card
- Simple integration into other data systems (access control etc)

| Various programming options

- Locker free or assigned mode
- Single user for multi lockers or multi users per single locker

| Audit trail function

- Up to 18 lock history events as default
- Up to 200 lock history events(optional)

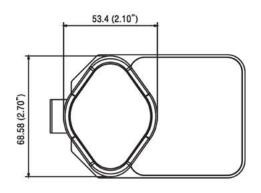
I Time based operation

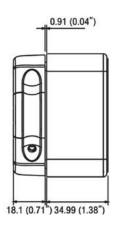
- Automatic door open at programmed time
- Set a time limit on user access

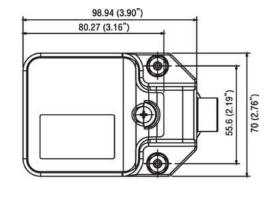
| Wakeupless operation

- No need to wake up lock before scanning the card / Refers to ZP100 and ZP200R models

DIMENSIONS

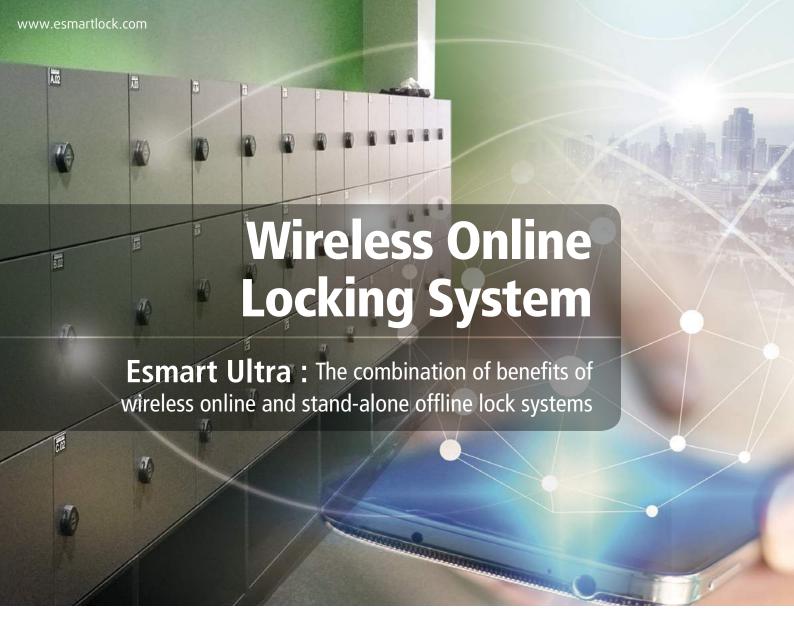






| Model | | ZP100 | ZP200R | PT300KR | | |
|---------------------------|-------|--|--|-------------------|--|--|
| Start-up | | Wakeupless | | Keypad | | |
| RF protocol | | 13.56 MHz ISO 14443 Type A/B (Mifare, Desfire, HID – optional and more) | | | | |
| Power | | 6V (1.5V AA battery x 4) | | | | |
| Latch material & | type | | Aluminum Spring bolt / Deadbolt | | | |
| Dimension | Front | 53.4(W)x68.58 | B(L)x18.1(D) | 48(W)x76(L)x26(D) | | |
| (mm) | Back | 99(L)x70(H)x35(D) | | | | |
| Housing | | Polycarbonate | | | | |
| Operation sign | nal | | LED (Green & Red) and Beep | | | |
| Door open/close | | RFID card, wrist | wristband and tag RFID card and F | | | |
| Battery life | | | 2 years (10 times operation/day) | | | |
| Safety standard | | | FCC, CE, KCC, ADA compliant | | | |
| Front case / plate design | | | Case color : Black by default (optional : White color) ZP200R front plate design can be customized on demand | | | |















All features from Esmart Classic



Wakeupless



Wireless Online system



Real time monitoring



Independent from the central controller



Remote controlling

Wireless Online Locking System



MAIN FEATURES

| All features from Esmart Classic

| Wireless online system

- Simple installation eliminating heavy work and cost
- Flexible locker relocation
- No risk of entire system suspension on the occasion of server malfunction owing to battery operating independently from the server.
- * To have online configuration, AP200 unit is essential

I Central control and monitoring through AP

- Real-time monitoring of battery status, lock occupancy, alarm, lock event history etc.
- Entire or partial door opening/closing at central server
- Remote card blocking or lock blocking
- Lock assignment

Rich functions and flexible operation

- Simple integration into other data systems (access control, cashless accounting, guest management etc.)
- Various programming options : Free selection or assigned locker
- Single user for multi lockers or multi users per single locker
- Automatic door open at programmed time
- Set a time limit on lock and user card

CONFIGURATION



| Model | | ZP100WR | ZP200WR | PT200 | PT300 | | |
|----------------------|-------------------------|--|--|--------------|-------------------|--|--|
| Start-up | Start-up | | Button / wakeupless | Touch screen | Keypad | | |
| RF Protocol | RF Protocol | | 13.56Mhz ISO 14443 Type A(Mifare, Desfire, HID–optional) | | | | |
| Radio Frequenc | | 2.4Ghz IEEE 802.15.4 Compliant RF Transceiver | | | | | |
| Power | | 6V(1.5V AA batteries x 4) | | | | | |
| Operational indica | Operational indicator | | LED (red, green) display and beep | | | | |
| Latch material and | Latch material and type | | Aluminum Spring bolt / Deadbolt | | | | |
| Housing materia | al | Polycarbonate | | | | | |
| Dimension | Front | 52(L)x64(H)x18(D) 51(W)x81(L)x14(D) 48(L)x76(H)x | | | 48(L)x76(H)x26(D) | | |
| (mm) | Back | 99(L)x70(H)x35(D) | | | | | |
| Operational temper | Operational temperature | | 0~50°C(operating), -40~85°(storage) | | | | |
| Operational humidity | | 10~90% | | | | | |
| Battery life | | 18 months (10 times operation/day) | | | | | |
| Regulation | | FCC, CE, KCC, ADA compliant | | | | | |













Compatible with any RF protocol



Easy interface protocol for a fast development



Remote controlling



Best for locker rental service



Kiosk Locking System



SYSTEM CONFIGURATION & FEATURES

Integrated controller configuration

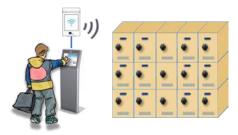
(with standard central controller)



- System with standard Central Controller for the stand-alone configuration
- Wireless communication between Central Controller and locks
- Cost effective and easy installation / No additional development necessary
- Multi credential accessibility (Smartphone, Pin code, Mifare, Des.re, 15693, HID, 125KHz ...)

| Custom kiosk configuration

(with your own kiosk)



- Use your own Kiosk system to control locks through wireless Access Point (AP200)
- Providing API and sample application that guarantees easy and fast system integration
- · It can be integrated to any 3rd party kiosk system with flexibility

SYSTEM COMPONENTS





SYSTEM COMPONENTS







KIOSK by customer AP200

| Model | | ZP100W | ZP200W | CC200 | |
|--|--------|---|--------|-------------------|--|
| Radio Frequency for data communication | | 2.4Ghz IEEE 802.15.4 Compliant RF Transceiver | | | |
| Com Interface with | server | N/A | | TCP/IP | |
| Supported RFID protocol | | N/. | N/A | | |
| Start-up | | Touch Sensor | Button | Touch screen | |
| Power | | 6V(1.5V AA Batteries x 4) | | DC 12V adaptor | |
| Operational indicator | | LED (red, green) display and beep | | | |
| Latch material and | type | Aluminum Spring bolt type / Deadbolt | | N/A | |
| Housing materi | al | Polycarbonate | | | |
| Case color | | Black | | Black | |
| Dimension | Front | 52(L)x64(H)x18(D) | | F1/L\01/L\14/D\ | |
| (mm) | Back | 99(L)x70(H)x35(D) | | 51(L)x81(H)x14(D) | |
| Operational temperature | | 0~50°C(operating), -40~85°(storage) | | | |
| Operational humidity | | 10~90% | | | |
| Battery life | | 3.5 years(10 actuations/day) N/A | | N/A | |
| Standard | | FCC, CE, KCC | | | |





Highly Adaptable, Intelligent, Intuitive and Fully Integrated Lock Managing Software







LMS

(Lock Management System)

- Software for distributor
- · Custom security key generation
- Card initialization
- Lock programming

LOS

(Lock Operation Software)

- Software for standalone locking system
- User card programming
- Audit trail up to 18 events
- Basic maintenance
- Excel data import and export

Online Server & Client

(Esmart Ultra)

- Software for wireless online lock system
- Access point management
- Real time lock status monitoring
- Lock remote controlling
- All features from LOS



Lock Management Software



SYSTEM REQUIREMENT

| Package | LOS LMS | | Online Server & Client | |
|--------------------------------|---|--|------------------------------------|--|
| OS | Windows XP or higher (32 or 64 bit) | | Windows 7 or higher (32 or 64 bit) | |
| RAM | 1GB or higher | | 4GB or higher | |
| Hard Disk space | 100MB or higher | | 10GB or higher | |
| Admin privilege | No administrator right rec | | equired . | |
| Recommended system requirement | Windows 7 (32bit) / RAM 8GB / HDD 100GB | | | |

SCREEN SHOT







LOS

Online Client

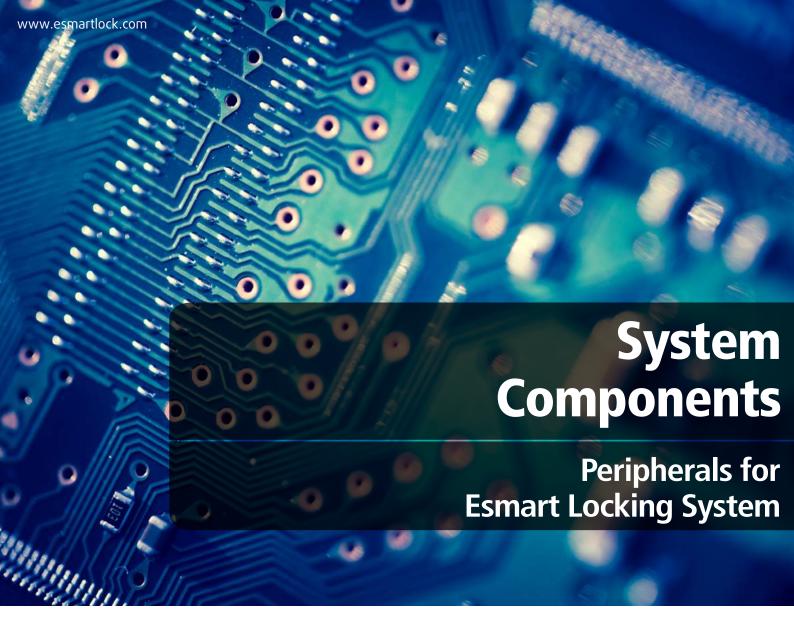
LMS software module

- LKS (Lock security Key Generation and Card Issuing Software) is the program to generate security key and all system cards required for customer's lock operations.
- LIS (Lock Installation Software) is the program to set the lock operating parameters and register the system cards to the lock.
- LOS (Lock Operation Software) is the client program to manage users and locks.

FUNCTION COMPARISON TABLE

| Package | LOS | LMS | Online Server & Client |
|---|-----|-----|------------------------|
| User card programming | • | • | • |
| Audit trail (card) | • | • | • |
| Maintenance (Time update / Master card change) | • | • | • |
| Lock info collection | • | • | • |
| Security key generation | | • | |
| System card duplication | | • | |
| Card initialization | | • | |
| Lock programming | | • | |
| Lock status monitoring | | | • |
| Remote lock controlling | | | • |
| Remote card or lock blocking | | | • |
| Remote audit trail | | | • |











DE620

Multi protocol support RFID card encoder **INFO TERMINAL**

Locker information displayer

AP200

Wireless access point



EXTERNAL BATTERY PACK

Emergency power supplier



MASTER PACK

Emergency master key pack



System Components



Multi protocol support RFID card encoder **DE620**



| ITEM | DATA |
|-----------------------|---|
| RF card protocol | ISO-14443 A/B Mifare, Desfire, Felica, ISO-18092, ISO-15693 |
| PC interface | USB 2.0 |
| Dimension | 68x120x30 (mm) |
| Input power | DC5V, 200mA |
| Operation temperature | -20 ~ 60° C |
| Reading distance | Up to 5 cm |

Locker information displayer INFO TERMINAL



| ITEM | DATA | | |
|-----------------------|---|--|--|
| RF Card protocol | ISO 14443 A/B, ISO 18092 (NFC), Mifare, Desfire, Felica | | |
| Frequency | 13.56 MHz | | |
| LCD | 4.3" TFT wide (800X480), 16.7M color | | |
| Touch | Resistive Touch | | |
| Dimension | 185x108x21(mm) | | |
| Input power | DC9V~24V (9V/2A) | | |
| Operation temperature | -10 ~ 60° C | | |
| Reading distance | Up to 5 cm | | |

Wireless access point AP200



| ITEM | DATA | | |
|----------------------------|---|--|--|
| Comm Interface with server | TCP/IP Ethernet | | |
| Com. Frequency with locks | 2.4GHz IEEE 802.15.4. compliant RF Transceiver | | |
| Dimension | 88x139x37(mm) | | |
| Input power | DC24V or POE (optional) | | |
| Operation temperature | 0~50° C | | |
| Effective range | About 40~50 meters in open area (without barrier) | | |

Emergency power supplier EXTERNAL BATTERY PACK



| ITEM | DATA | | |
|----------|-------------------------|--|--|
| Power | AA battery X 4, 6V | | |
| Switch | On / Off | | |
| Function | External power supplier | | |

Emergency master key pack MASTER PACK



| ITEM | DATA | | |
|----------|--|--|--|
| Power | AA battery X 3, 4.5V | | |
| Switch | On / Off | | |
| Function | Master key pack working as Master card 1 | | |







STANDARD WRISTBANDS



BUCKLED WRISTBANDS



BANGLED WRISTBANDS







RFID Credentials



MAIN FEATURES

- •100% waterproof with RFID ISO 14443 type A Mifare chip and antenna embedded.
- •Variety of models, including standard, buckled and bangled type wristbands, RFID cards and keyfobs.
- •Customer logo customization and numbering option.
- •Durable and easy to wear and take off wristbands.
- •Designed for fitness, water parks, swimming pools, saunas and spas.

| | Standard Wristbands | Buckled wristbands | Bangled wristbands | RF Tags | RF Cards |
|-----------|-----------------------------|------------------------------|-----------------------------|-------------------------------|---|
| | FEET TOWN | | | | Kee Care Manne Card II Neer Card Manne toward |
| Material | Silicone | Silicone | Silicone | PVC | PVC |
| Dimension | L 28mm × W 18 mm ×T 2 mm | L 235 mm ×W 17 mm ×T 2 mm | L 215 mm ×W 22mm ×T 2 mm | L 51 mm ×W 32mm ×T 5.38 mm | L 85.6mm × W 54mm × T 0.86mm |
| Color | Blue, violet, red | Blue, pink | Blue, green, orange | Black, blue | As on image |
| RFID Chip | | | ISO 14443 A Mifare | | |





PASSTECH product list

Esmart Mobile - Mobile access locking system









ZP100M

ZP200M

PT200M

PT300M

Esmart Classic - Stand-alone RFID locking system







ZP100

ZP200R

PT300KR



Esmart Ultra - Wireles online locking system









ZP100WR

ZP200WR

PT200

PT300



Esmart Kiosk - Wireles online Kiosk locking system





ZP100W

ZP200W



Lock Software







LMS

LOS

Online Server & Client



System Component







Locker information displayer INFO TERMINAL



Wireless access point AP200



EXTERNAL BATTERY PACK



Credentials

State of the art | Unlock Innovation









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