

# **Nation Series AR-723-H Tiny Proximity Access Controller**

RS485 interface controller, smaller than your palm hand

### Mini Controller

With only 8cm height it is not even as big as your palm

# Indoor & Outdoor Installation We offer weatherproof and IP 68 epoxy

waterproof, suitable for indoor and outdoor installation

### **Keyless Editing**

Just by swiping master card, quickly add or delete user

# Wiegand Keyboard for Quick Configuration Setting

Set up configuration and edit user card setting by entering command with external Wiegand Keyboard

### **Selectable Frequency**

125KHz: Support EM card 13.56MHz : Support Mifare, NFC (emulate UID), DESFire (Crypto comply with EAL4+)

#### As RS485 Reader

Flexible use, can be standalone and networking

## **Features**



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- Built-in hardware watchdog and real time clock
- Standalone / Networking / Support Cascade Structure
- Support RS485 communication encryption, SSC (Soyal Security Communication)
- Master card for keyless editing
- In-field firmware upgrade
- Arming / Force alarm / Door close delay alarm
- Multi output: door lock output (0.1-600 sec. and toggle mode)& alarm output (1-600 sec.)
- Support 1.5 door control anti-passback

- Silent operation mode: push button mute and all mute
- Auto door open time zone: Built-in 2 time zones, with
- multi-door control panel upgrade to 16 time zones
- Assign user for door group (up to 254) and time zone (up to 11, with control panel up to 63)
- Holiday edit (Up to 120 days a year) for salary counting and auto open time zone setting
- Auto relock for anti-trailing and sneaking
- Access control, lift control, time attendance, payroll and SCADA: graphic monitoring & remote control function



# **SPECIFICATION**

|                            | Host            | RS485/9600 bps (N, 8, 1)   |  |  |
|----------------------------|-----------------|--|--|--|
| Communication<br>interface | Serial          | UART PORT (Output only)/4800 bps (N, 8, 1)<br>SSC (Soyal Security Communication)   |  |  |
| Frequency                  |                 | 125kHz   | 13.56MHz   |  |
| Supported Tags             |                 | ISO18000-2: EM4001<br>and EM4095 compatible  | <ol> <li>ISO 14443 Mifare Ultralight,<br/>Classic, DESFire EV1</li> <li>NFC (card simulation)</li> </ol> |  |
| Crypto                     |                 |  | CC Certification: 3DES<br>Crypto comply with EAL4+   |  |
| RFID Reading Range         |                 | 5-12 CM  | 2-8CM  |  |
| UID Bits                   |                 | 24~32 (Adjustable)   |  |  |
|                            | Digital Input   | Egress / Door State  |  |  |
| DI/DO                      | Digital Output* | (share same terminal w   | Lock Output<br>vith Security trigger signal Output)<br>ress Output / Alarm Output                        |  |
|                            | *Required E     | External Relay Output Module   |  |  |
| Doors/Floors Number        |                 | 1.5 Doors / 32 Floors  |  |  |
| User Capacity              |                 | 1024   |  |  |
| Event Log                  |                 | 1100   |  |  |
| Indicator                  | LED             | Bi-Color LED Ring Indicator<br>GREEN- arming, disarming/standby mode & access granted<br>RED= abnormal event: access denied & alarming |  |  |
|                            | Buzzer          | 1  |  |  |
| TAMPER                     |                 | No   |  |  |
| Dimension (mm)             |                 | 81(H)X 43(W)X18(D)   |  |  |
| Housing Material           |                 | ABS  |  |  |
| Color                      |                 | Black, Gray, Silver  |  |  |
| Weight (g)                 |                 | approx. 40   | approx. 60   |  |
| Power Consumption          |                 | <3W  |  |  |
| Power Voltage              |                 | 9-24VDC  |  |  |
| Ingress Protection         |                 | IP56 / IP66(Epoxy)   |  |  |
|                            | Operating Tempe | erature -20°C  | e -20°C ∼ +70°C  |  |
| Enviroment                 | Storage Tempe   | rature -40°C   | ture -40°C ~ +75°C   |  |
|                            | Operating Humi  | idity 0%~90% (r  | 0%~90% (non-condensing)  |  |
|                            | Storage Humidi  | ty 0%~95% (r   | 0%~95% (non-condensing)  |  |

## WHAT WE OFFER

### 🎢 Industrial Grade / High Durability

Made of industrial grade materials in compliance with RoHS, which is far higher than general commercial grade, Soyal products work well in extreme environment with long working life.

## Anti-Cloning and Anti-Duplicate

We provide anti-cloning and encryption for whole system to tighten up the security. It supports DESFire in compliance with EAL4+, more secure than other brand' s controller.

## Support Soyal Cascade Structure

When scaling your system it is not only having more hardware, higher security level, and more spaces to control; it also means there will be more people with access. Without replacing or changing installed hardware, adjust your controller user capacities by adding external Multi-Door Controller; from a thousand to more than ten thousand user capacity.

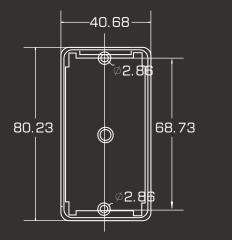
## Iigh Scalability, Beyond Access Controller

Each product manufactured by Soyal is made for total solution and to offer flexibility. For instance, Soyal main product is access controller but you can find Soyal on other application like offline consumption device, charging device, and many more just by changing its firmware.

### No Exclusivity, Open Integration Resources

SOYAL provides open sources such as SDK and protocol document that have "no-exclusively and open source integration" characteristic. SOYAL also supports integrations, like JSON, Graphic QL, Julia, Modbus, so customers can easily develop their own software.

# INSTALLATION(mm)

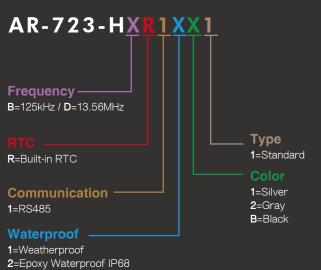


(Front View)



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# HOW TO ORDER





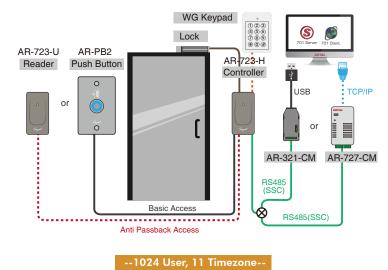
## **APPLICATION & STRUCTURE DIAGRAM**

#### STANDALONE & NETWORKING ACCESS CONTROL

**Basic Access:** the most basic access, exiting venue is only by pressing a push button

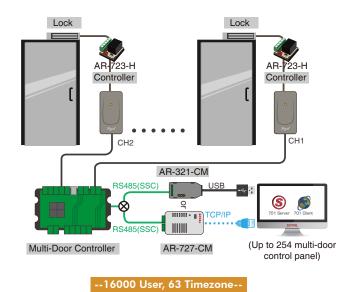
Anti Passback: restrict user to re-enter before exiting venue or increase security level by having access reader at the other side of the door. Both entering and exiting will required swipe card or keyfob for access.

**Netwoking:** beside configuration through Wiegand Keyboard and Master Card, you can also link AR-723-H with Soyal converter to PC for configuration via SOYAL Software or for anti-cloning and encryption process.



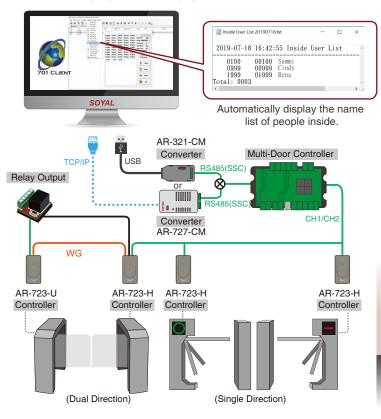
#### CASCADE STRUCTURE

Upgrade user capacity without replacing AR-723-H installed with additional hardware of SOYAL Multi-Door Control Series. Under Multi-Door Control Panel, when RS485 communication is working normally, AR-723-H will be a Slave Reader of Control Panel. Once its communication is cut off, AR-723-H will automatically be Access Control and have control on its user and parameter setting.



#### TURNSTILE: COUNT AND DISPLAY NUMBER OF PEOPLE ON-SITE

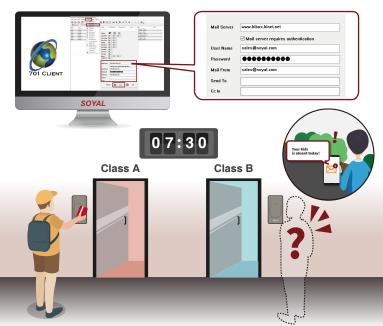
Either with single direction or dual direction turnstile, with multi-door control panel AR-716-E16, restricts user access to re-enter venue without exiting first with anti-passback features and get the total number of people and the display the list of user on site via 701Client.



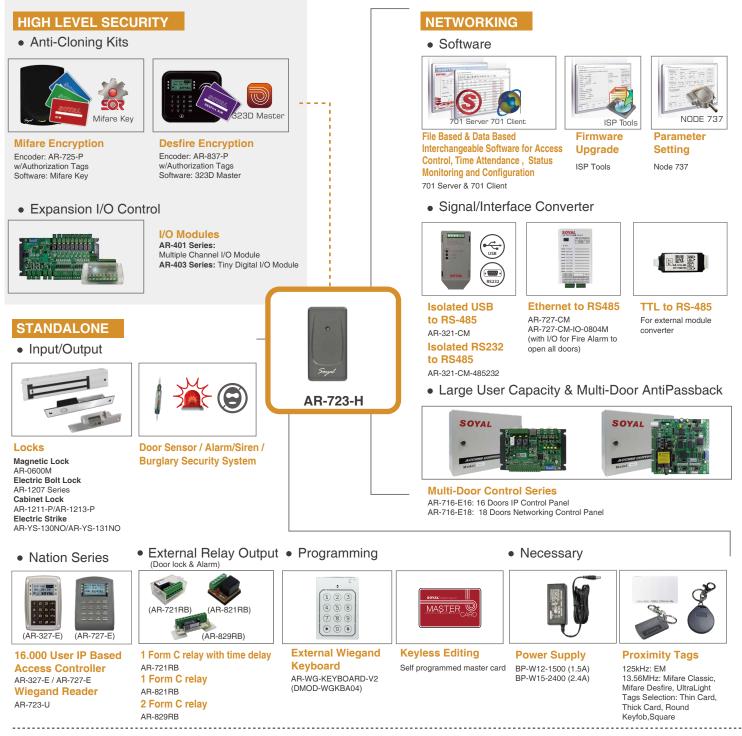
### Student Absent Automatically Send Email to Guardian

The application is recommended on School Security protection. With the customized version of 701client, the teachers can view the students' daily attendance records and also the transactions can be sent to assigned e-mail address to inform the parents if their children is absent or not.

- All student record is recorded on SOYAL 701Client software and Email field enter guardian's email.
- Student swipe card when entering classroom
- When first period begin, and student is absent from class, guardian will automatically receive email notification



# **PERIPHERALS / ACCESSORIES**



## FAQ

Q: How to configure and add or delete user on keyless editing?

- A: Under standalone mode, configuration and add or delete user can be done with Wiegand Keyboard by sending command to controller. Or you can also set up to three master cards for each controller to quickly add and delete users
  - For networking, *Node737* Software provide easy setting for keyless controller or you can also choose *701Client* for more detailed setting and *Commview* by sending protocol command. All Soyal softwares are available for download on Soyal website.

# Q: What is the difference betweeen SOYAL Home Series and Enterprise Series Controller?

A: SOYAL access controller classified into two categories in term of specification; Home Series and Enterprise Series. SOYAL Home Series controller has already include all basic standalone and networking access controller that you need. But E series controller provide what Home Series controller has already have, and more advanced features like built in more user capacity, UART Port for extension module, and extension interface like Ethernet and POE.





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