SOYAL®

AR-725-N Series(U/P/R/-)

RFID Card Reader / Writer / Programmer



(Desktop Type)

(Wall-mounted Type)

Desktop and Wall-mounted Installation Design For Various Application

In addition to desktop type, the wall-mounted type is available for multiple style choices.

Support WIN 10, WIN11

Support multi operation system, improve the compatibility and convenience

Support NFC

NFC communication device, contacless point-to-point data transmission

Support MIFARE / DESFire

Supports multiple card formats including MIFARE, DESFire, ISO14443A, ISO15693 and so on



Web

Youtube

AR-725-N-U Features

- Support Serial Port Communication Read/Write
- USB interface, only need to install USB Driver to use

AR-725-N Features

- USB Plug & Play free of driver installation
- Quickly register card UID number in Text or Excel files.

AR-725-N-P Features

- Support Mifare read and write encryption, anti-cloning solution to improve safety
- Taiwan Utility Patent：SOYAL Open System Rules (SOR), Patent Number: I 365414

AR-725-N-R Features

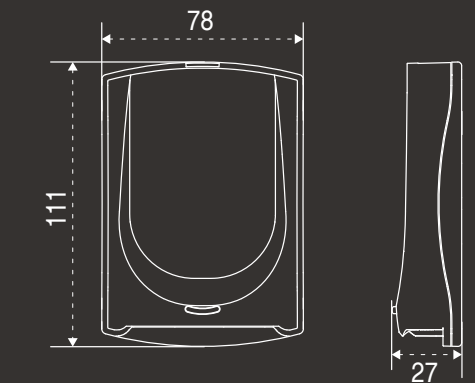
- USB Plug & Play free of driver installation
- Suitable for 701Client quick card registration procedure (Support 701ClientSQL version 2019 May and after)

SPECIFICATION

Model no.	AR-725-N-U AR-725-U-485/232	AR-725-N-P	AR-725-N-R	AR-725-N
Frequency	**13.56Mhz** ISO 14443/ISO 7816-4 Mifare Ultralight, Classic, DESFire EV1, NFC (card simulation)	**13.56Mhz** ISO14443A	**125kHz +13.56MHz** **(Dual Band)** EM Standard & ISO14443A	**125kHz +13.56MHz** **(Dual Band)** EM Standard & ISO14443A
Supported Tags	MIFARE Tag	MIFARE Tag	EM Tag,MIFARE / DESFire Tag	EM Tag,MIFARE / DESFire Tag /15693
RFID Reading Range	3-8 cm	1-3 cm	1-3 cm	1-3 cm
Communication interface	WG 24-34 / RS485 ABA-II / RS232(By Order)/ USB 2.0 Virtual COM Port(By Order)	USB 2.0 Virtual COM Port/ RS232(By Order)	USB Plug & Play free of driver installation	USB Plug & Play free of driver installation
Read / Write	Read Only	Read / Write	Read Only	Read Only
Indicator — LED	1 Bi-color LED	1 Bi-color LED	1 Bi-color LED	1 Bi-color LED
Indicator — Buzzer	1	1	1	1
Power Voltage	725-N-U : Power supplied via USB 5VDC 725U-485/232 :9-24VDC	Power supplied via USB 5VDC	Power supplied via USB 5VDC	Power supplied via USB 5VDC
Power Consumption	<0.5W	<0.5W	<0.5W	<0.5W
Housing Material	725-N-U:ABS 725U-485/232:PC	ABS	ABS	ABS
Color	725-N-U:Black 725U-485/232: Black, Gray, Silver, Pearl White	Black	Black	Black
Weight (g)	725-N-U : 90±10 725U-485/232 :150±10	90±10	90±10	90±10
Dimension (mm)	110(H)x79(W)x26(D)	110(H)x79(W)x26(D)	110(H)x79(W)x26(D)	110(H)x79(W)x26(D)

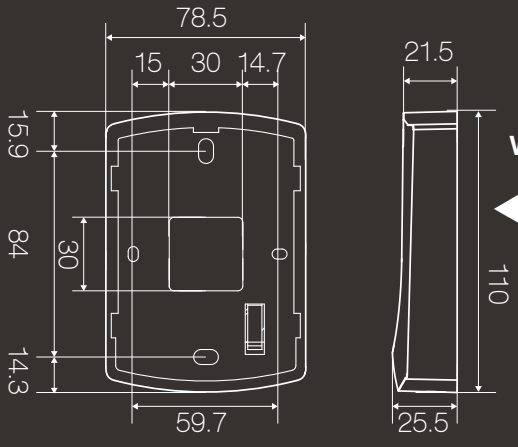
Enviroment	Operating Temperature : -20℃ ~ +70℃	Storage Temperature : -40℃ to +75℃	Operating Humidity : 0%~90%(non-condensing)	Storage Humidity : 0%~95%(non-condensing)

INSTALLATION(mm)



Desktop Type

◀ AR-725-N-U
/AR-725-N-P/R/-



Wall-Mounted Type

◀ AR-725-U(RS485)
AR-725-U(RS232)

HOW TO ORDER

AR-725-N-XXXXNL1-X

Product
- **U**= Access Reader
- **P**= Programmer
- **R**= Card Registration (701ClientSQL)
- **–**=Keyboard Simulation

Frequency
- **D**= 13.56MHz
- **S**= Dual Band (125kHz+13.56MHz)

RTC
- **X**= None

Communication
- **1** = RS485
- **2** = RS232
- **8**= USB

Waterproof
- **N**= None

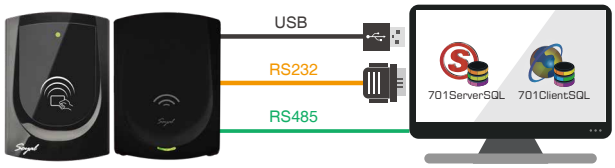
Color
- **L**= Black

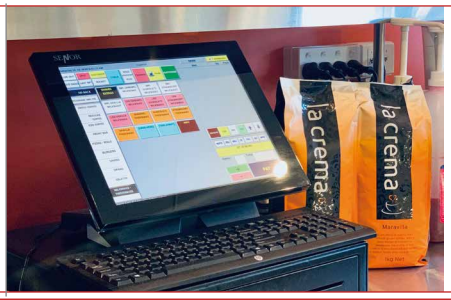
Type
- **1**= Standard

Supported Tags
- **15693**= 15693 (Only 725-N)

APPLICATION & STRUCTURE DIAGRAM

AR-725-N-U



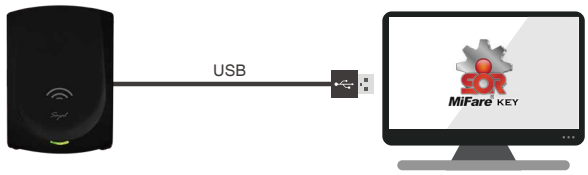


POS Machine Management

Support Serial Port Communication Read/Write

Full model no.	Communication	Interface	Frequency	Installation	Function Details
AR-725-N-UDX8NL1-USB AR-725-N-UDX1NL1-485 AR-725-N-UDX2NL1-232	USB COM Port Simulation Mifare Reader	USB / RS232 / RS485	13.56MHz	USB Driver	USB Mifare reader, used for transfer card UID only

AR-725-N-P



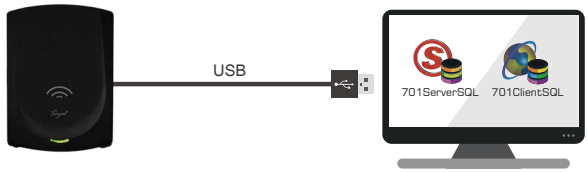


Support Standalone Stored-Value Deduction and Payment System

Choose value type of money, points, or time according to requirement, directly link to printer to print the real-time transaction receipt (this function required to be updated with special firmware)

Full model no.	Communication	Interface	Frequency	Installation	Function Details
AR-725-N-PDX8NL1	USB COM Port Simulation Mifare Programmer	USB	13.56MHz (Using for Encryption, Mifare only)	USB Driver	Mifare Encryption, for SOR (Soyal Open system Rules)

AR-725-N-R



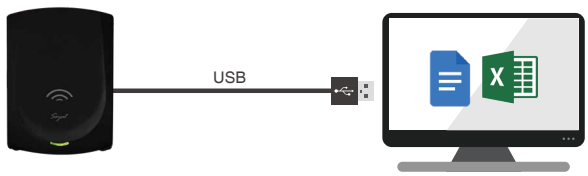


Quick Register User Card with SOYAL 701Client Softwar

In 701 Client when configuring user's data, with USB Card Reader (AR-725-N-R) adding card number will be quicker, moreover it support EM (125kHz), Mifare, Desfire, and Ultra Light card format.

Full model no.	Communication	Interface	Frequency	Installation	Function Details
AR-725-N-RSX8NL1	USB Plug & Play free of driver installation only for 701ClientSQL	USB	125kHz + 13.56MHz	Plug & Play	Quick RFID tags enrollment reader on 701ClientSQL software

AR-725-N





Machine Management

Quickly register card UID number in Text or Excel files.

Full model no.	Communication	Interface	Frequency	Installation	Function Details
AR-725-NSX8NL1	USB Plug & Play free of driver installation Keyboard Simulation	USB	125kHz + 13.56MHz	Plug & Play	Keyboard simulation, quick RFID card enrollment in TXT and excel document

PERIPHERALS / ACCESSORIES

- Illuminate Series



Illuminated Backlight Controller / Access Reader
AR-725-E / AR-725-H / AR-725-K

- Power Supply



Power Supply
BP-W12-2000 (2A)
BP-W15-2400 (2.4A)
BP-W15-3000 (3A)

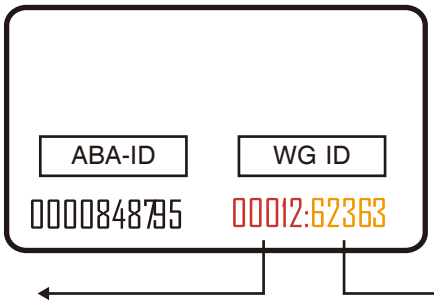
- Proximity Tags



Proximity Tags
125kHz: EM
13.56MHz: Mifare Classic,Mifare Desfire, UltraLight
Tags Selection: Thin Card,Round Keyfob,Square Keyfob

INPUT FORMAT OF CARD NUMBER

Model no.		AR-725-N-U / AR-725-UD	AR-725-N-P	AR-725-N-R	AR-725-N
Read card number	Correct	●	●	●	●
	Reverse solution	●	●	●	●
	4 Bytes	●	●	●	●
	8 Bytes	●	●	●	●
Output format of Card Number	Hex	●	●	●	●
	Dec	●	●	●	●
	ABA 8	●	●	●	●
	ABA 10	●	●	●	●
	ABA 13	●	●	●	●
	WG 55	●	●	●	●
	ASCII	●	●	●	●



Card UID (__:xx)WG32(5:5) / u64(7~10:8) :
Site code, first 5 digit UID WG5:5 or HEX 4~7/64Bit

Card UID (xx:__)WG32(5:5) / u64(7~10:8) :
Card Code, last 5 digit UID WG5:5 or HEX 0~3/64Bit4Bit)

Support multi output such as WG, ABA, and HEX by adjusting the dip switch (AR-725-N)

Supported Hardware: Shipment March 28th, 2022 and after
Supported Firmware: 725NS_7V3 WG55_ABA_HEX 220316 .ISP

SW1	SW2	Format
OFF	OFF	※10 digit ABA ，Example:0000123456
OFF	ON	ABA omitted the first digit with 0，Example:123456
ON	OFF	HEX (8 digit)
ON	ON	Wiegand (WG5:5)

※Default value

- Dip Switch Position:



Please use screwdriver to open the back housing and adjust the dip switch