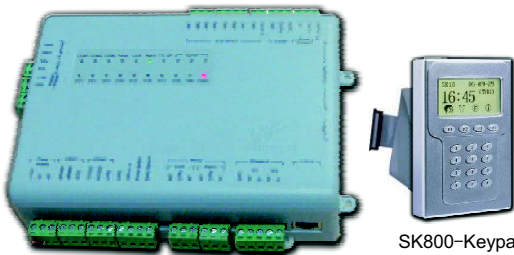


Single Door Network Controller

SK100-NT SK100-NT-PRO



SK100-NT



SK100-NT-PRO

SK800-Keypad

Features

- ◆ Using 32 bit ARM CPU, operate on embedded LINUX OS, speed up to 200MHz
- ◆ Direct connection to PC via TCP/IP. Connection via TCP/IP converter is not required. Transmission speed up to 100 Mbps
- ◆ Storage Capacity up to 10,000 cards and 100,000 transactions (SK100-NT-PRO can store up to 100,000 cards and 100,000 transactions)
- ◆ Support "Toggle Mode", mainly use for controlling on/off of large-scale electrical equipment
- ◆ Support Anti-passback with confirmation by door open
- ◆ Support Arm/Disarm function
- ◆ Using Flash Memory to store data. Data can be stored up till 10 years without power supply
- ◆ Recoverable up to the latest 100,000 transaction if back end system failure
- ◆ Firmware Online Upgrade via TCP/IP
- ◆ Smart Door Lock capability. When system detect door open and close back, door will automatically lock back
- ◆ Programmable Time zone / Pin Access Control
- ◆ CE Certified

* When setup SK100-NT-PRO, SK800-KEYPAD is required

Functional List

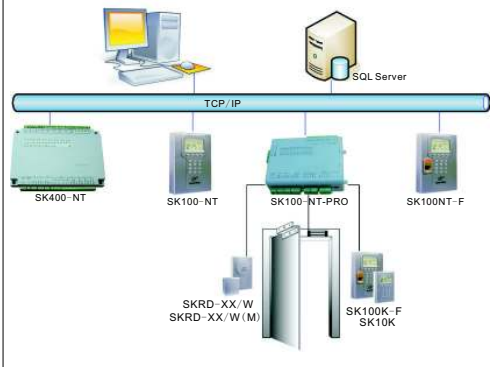
Function	Description
Card Open Door	Present card to wiegand reader
Card+PIN Open Door	(1) Use controller with built-in reader
Security PIN Open Door	(2) Connect with SK10K, SK100K-CN keypad reader via wiegand connector
Card ID Open Door	(3) Open door either by enter Security PIN or Card ID (4) Open Door by Card + Pin: 4 digits PIN; By Security PIN: 8 digits PIN
Fingerprint Open Door	Connect to SK fingerprint reader via wiegand connector. Open door method include: Card + Fingerprint, ID + Fingerprint, Fingerprint + PIN, Card + Fingerprint + PIN, ID + Fingerprint + PIN, Card Only, Card + PIN, PIN only, ID only etc.
Connect External Wiegand Reader	Support any 26 or 34 bit or free wiegand card reader
Connect External Keypad Reader	(1) HID wiegand keypad reader (2) SK readers inclusive SK-10K, SK100K-CN and SK100K keypad reader via wiegand connector
Connect External SK Fingerprint Reader	(1) Send the fingerprint corresponding card ID to controller via wiegand connector, (2) Support PC download fingerprint to 485 fingerprint reader via controller through TCP/IP.
Connection to PC	(1) 232, 485 or TCP/IP, use jumper to setup between 232 or 485 (2) Use keypad to setup Controller ID 001-255 (3) Use keypad to set IP Address, Subnet Mask and Gateway
Alarm functions	Support Door Left Open Alarm, Door Force Open Alarm, Temper Alarm and Local TTL Alarm
Add/Delete Card in standalone mode	Yes
Dual-card Verification	Yes
Wrong PIN Control	During Card + PIN operation, if PIN enter incorrectly for predefine times, controller will be disabled for a predefine duration
Same Card Delay	0-255 seconds. Factory default is 0 second.
Time Zone Control	32 set of time zone
Holiday Control	Yes
Lost/Inhabit Card	Yes
Card Start and Expiry Date Validation	Yes
Door Auto Unlock by Timezone	Yes
Anti-passback	Yes (Local or Global). Able to reset manually or by time and zone control
Card Number Output Byte	1-4 bytes. Default is 4 bytes
Card Number Display Format	HEX, DEC, ABA, User Code. Default is DEC
Communication Monitoring	Yes
PIN and Timezone Control	Yes. Able to setup whether enable PIN or Timezone control
Tamper Alarm	Yes
Door Left Open Restore transaction	Yes
485 End of line resistor	Through jumper setting
Door Sensor Setting	Door sensor setup including connection type, sensitivity, smart door lock control and record with confirm

Single Door Network Controller

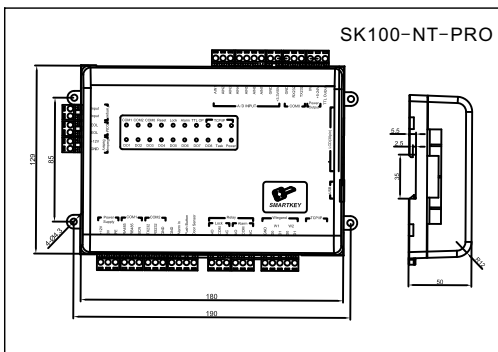
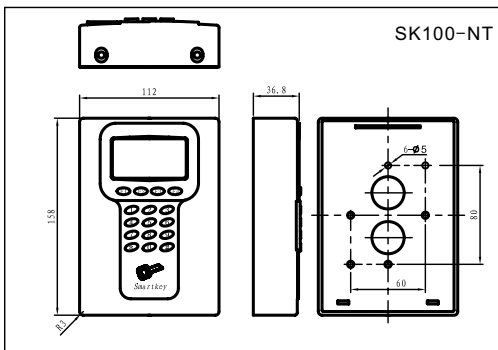
SK100-NT SK100-NT-PRO



SK100-NT Controller Typical Connection



Dimension (Unit: mm)



Technical Specification

Parameter	SK100-NT	SK100-NT-PRO
CPU	32 bits ARM9 processor speed up till 200MHz	
Operating System	LINUX	
Number of Door	1	
Wiegand Reader Connect	2	
Door Sensor	1	
Exit Push button	1	
TTL Alarm Input	1	
Door Relay Output	1, 12V/1A	
Alarm Relay Output	1, 12V/1A	
TTL Alarm Output	1, 5V/300mA	
Tamper Switch	1	
Card Capacity	10,000	100,000
Card Response Time	Based on 10,000 card stored, response time is less than 0.5 seconds	
Record Capacity	100,000	
Serial COM Port	2 COM port (1) COM1 – RS-485 communication to PC (2) COM0 – RS-232 or 485 reader, reserved by factory for debugging, default is set to RS-232.	
TCP/IP	1, 10/100 Mbps auto switch, communicate with PC	
USB	2 Master USB	
Keypad	128x64 dots Graphical, White Backlight, Chinese, English 4x4, Blue Backlight	
Buzzer	Yes	
Real Time Clock Battery	CR2032, 3V	
Power Supply	9~30VDC, 300mA	
Operating Temperature	-10~50°C	
Dimension	158 x 112 x 37 mm	
Casing	ABS flame-resistant, silver color	
Mounting	Wall mount	Din rail mount

Model Selection

SK100-NT Series

Model	Description
SK100-NT	Graphical display single door network controller
SK100E-NT	Single door network controller, build-in EM Card reader, range > 5cm
SK100M-NT	Single door network controller, build-in Mifare Card reader, range > 2.5cm
SK100H-NT	Single door network controller, build-in HID Card reader, range > 2.5cm
SK100TI-NT	Single door network controller, build-in ISO15693 (TI) Card reader, range > 2.5cm
SK100B-NT	Single door network controller, build-in Type B ISO14443B Card reader, range > 2.5cm
SK100C-NT	Single door network controller, build-in CPU Card reader, range > 2.5cm

SK100-NT Series

Model	Description
SK100-NT-PRO	Single door network controller