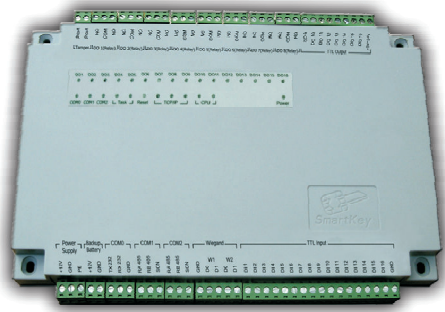


8 Door Network Controller

SK800



Features

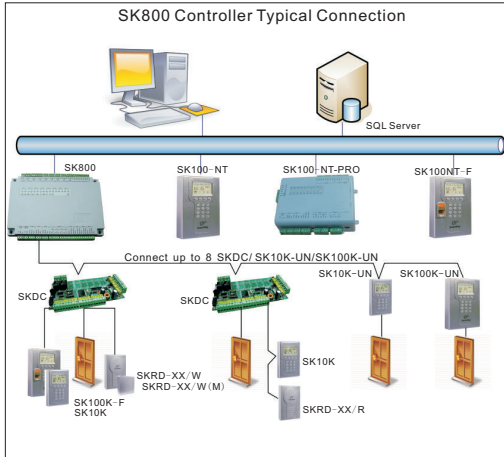
- ◆ Using 32 bit ARM CPU, operate on embedded LINUX OS, speed up to 200MHz
- ◆ Direct connection to PC via TCP/IP. Connection via TCP/IP converter is not required. Transmission speed up to 100 Mbps
- ◆ Control up to 8 doors via local door controller (SKDC)
- ◆ Storage Capacity up to 100,000 cards and 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 Anti-tailgating
- ◆ Support Arm/Disarm function
- ◆ Support Door Interlock 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
- ◆ Designed with communication line voltage auto-detection feature. Able to send fault alert should there be any line tamper/interruption
- ◆ Build-in with PLC function, simplify integration between security and control system
- ◆ Field programmable alarm monitoring function such as duress, panic, emergency, fire, intrusion etc..
- ◆ Smart Door Lock capability. When system detect door open and close back, door will automatically lock back
- ◆ Super user card functions. During system failure, make use of super user mode to open door
- ◆ Programmable Time zone / Pin Access Control
- ◆ Hot pluggable Programming Keypad
- ◆ CE Certified

Functional List

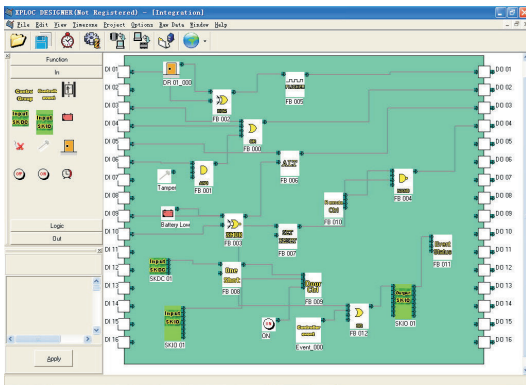
Function	Description
Card Open Door	Present card to wiegand reader or 485 reader connect via SKDC
Card+PIN Open Door	(1) Directly connect with SK10K-UN / SK100K-UN reader. SKDC is not required.
Security PIN Open Door	(2) Connect SK10K-UN/SK100K-UN to SKDC.
Card ID Open Door	(3) Connect SK10K, SK100K-CN keypad reader to SKDC via wiegand or RS-485 connector. (4) Connect SK100K keypad reader to SKDC via RS-485 connector (5) Open door either by enter Security PIN or Card ID (6) Open Door by Card + Pin: 4 digits PIN; By Security PIN: 8 digits PIN
Fingerprint Open Door	Connect to SK fingerprint reader to SKDC 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.
Super User Card Open Door	During system failures, using predefine super user card to open door.
Connect External Wiegand Reader	Support any 26 or 34 bit or free wiegand card reader
Free Wiegand Setting	Yes. Able to configure battery low-voltage alarm when used with long card reader.
Connect External Keypad Reader	Connect via SKDC (1) HID wiegand keypad reader (2) SK readers inclusive SK-10K, SK100K-CN and SK100K keypad reader via wiegand connector (3) SK10K-UN and SK100K-UN
Connect External SK Fingerprint Reader	Yes. Via SKDC wiegand connector
Connect to SKDC	Connect up to 8 SKDC, controlling 8 doors respectively.
Connect to SK8I/O	Connect up to 16 SK8I/O. Each consists of 8 DI and 8 DO
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
Door Left Open Alarm	1-255 seconds. Factory default is 5 seconds. Can be disabled.
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.
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
Tamper Alarm	Yes
Power Supply Monitoring	Main power failure alert and backup battery low voltage alert
Door Sensor Setup	Door sensor setup including connection type, sensitivity, smart door lock control and record with confirm
External Backup Battery with charging capability	Yes

8 Door Network Controller

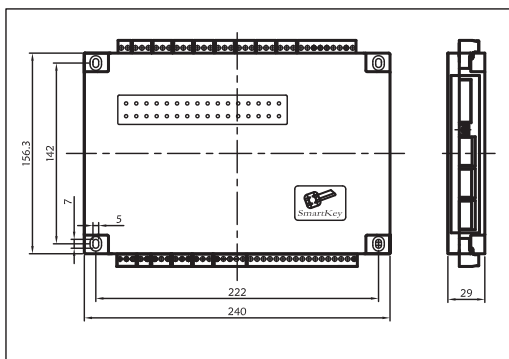
SK800



PLC Designer



Dimension (Unit: mm)



Functional List

Function	Description
PIN and Timezone Control	Yes. Able to setup whether enable PIN or Timezone control
Door Left Open Restore transaction	Yes
485 End of line resistor	Through jumper setting
485 Reader ID setting	Change 485 reader ID from controller and send via SKDC
Interlock	Setup for any 2 or more doors interlock control
Exit by Push Button Timezone Control	Yes

Technical Specification

Parameter	Description
CPU	32 bits ARM9 processor speed up till 200MHz
RAM	64MB SDRAM
Flash	16MB NOR Flash
Operating System	LINUX
Card Capacity	100, 000
Card Response Time	Based on 100,000 card stored, response time is less than 1 seconds
Record Capacity	100, 000
Serial COM Port	3 COM port, COM0 and COM1 able to switch between 232 and 485 (1) COM1 – PC or 2 nd level controller (2) COM2 – SKDC, SK8I/O, SK10K-UN,SK100K-UN (3) COM0 – Factory (Reserved)
TCP/IP	1,10/100 Mbps auto switch, communicate with PC
USB	2 Master USB
IIC	1
SD Card	1
JTAG	1
Keypad (Removable)	128x64 dots Graphical, White Backlight, Chinese, English 4x4, Blue Backlight
TTL Input	16, use for PLC
Analog Input	7
Relay Output	8. Able to direct connect to external devices, 12V/10A, use for PLC programming and system integration.
TTL Output	8. 5V/300mA use for PLC programming and system integration.
Build-in Hardware Watchdog	Yes
Build-in Real Time Clock	Yes
Hardware Reset Button	Yes
Tamper Switch Input	Yes
Buzzer	Yes
Real Time Clock Battery	CR2032, 3V
Power Supply	9~30VDC, 400mA
Operating Temperature	-10~50 °C
Dimension	240x180x30mm
Casing	ABS flame-resistant, light gray color