

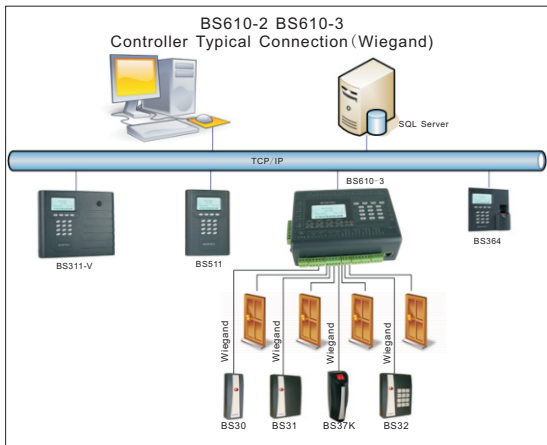
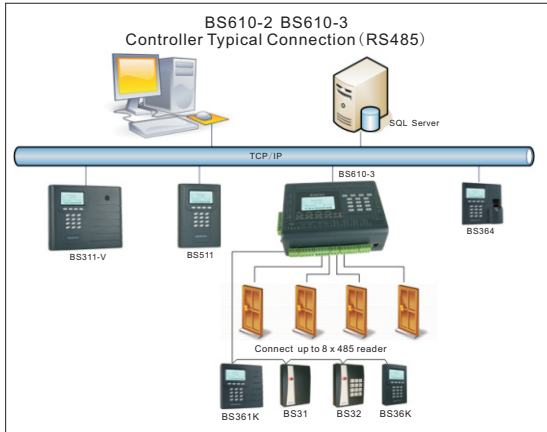


Features

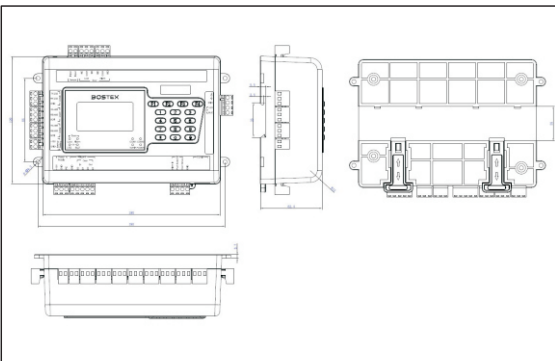
- ◆ Using 32 bit ARM CPU, operate on embedded LINUX OS, speed up to 200MHz
- ◆ Direct connection to PC via TCP/IP. Connection via TCP/IP converter is not required. Transmission speed up to 100 Mbps
- ◆ Storage Capacity up to 20,000 cards and 100,000 transactions
- ◆ Support "Toggle Mode", mainly use for controlling on/off of large-scale electrical equipment
- ◆ Support Anti-passback with confirmation by door open
- ◆ Support 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
- ◆ 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

Functional List

Function	Description
Card Open Door	Present card to wiegand reader or 485 reader
Card+PIN Open Door	(1) Connect with BS32, BS36K, BS361K keypad reader via wiegand or 485 connector
Security PIN Open Door	(2) Open door either by enter Security PIN or Card ID
Card ID Open Door	(3) Open Door by Card + Pin: 4 digits PIN; By Security PIN: 8 digits PIN
Fingerprint Open Door	Connect to BS 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) BS readers inclusive BS32, BS36K and BS361K keypad reader via wiegand connector
Connect External BS 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) 485 or TCP/IP (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
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	Via jumper setting
485 Reader ID setting	Via controller to change 485 reader ID
Interlock	Setup for any 2 or more doors interlock control
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



► Dimension (Unit: mm)



► Technical Specification

Parameter	BS610-3	BS610-2
CPU	32 bits ARM9 processor speed up till 200MHz	
Operating System	LINUX	
Number of Door	4	2
Wiegand Reader Connect	4	4
485 Reader Connect	8	4
Door Sensor	4	2
Exit Push button	4	2
TTL Alarm Input	4	2
Door Relay Output	4, 12V/10A	2, 12V/10A
Alarm Relay Output	4, 12V/10A	2, 12V/10A
TTL Alarm Output	8, 5V/300mA	4, 5V/300mA
Tamper Switch	1	
Card Capacity	20, 000	
Card Response Time	Based on 20,000 card stored, response time is less than 0.5 seconds	
Record Capacity	100, 000	
Serial COM Port	3 COM port (1) COM1 – PC or 2 nd level controller (2) COM2 – 485 reader or 485 keypad reader (3) COM0 – Factory (Reserved)	
TCP/IP	1, 10/100 Mbps auto switch, communicate with PC	
JTAG	1	
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	129 x 180 x 62 mm	
Casing	ABS flame-resistant	
Mounting	Din rail mount	

► Model Selection

Model	Description
BS610-XXX-2	2 door controller, TCP/IP comm to PC
BS610-XXX-3	4 door controller, TCP/IP comm to PC