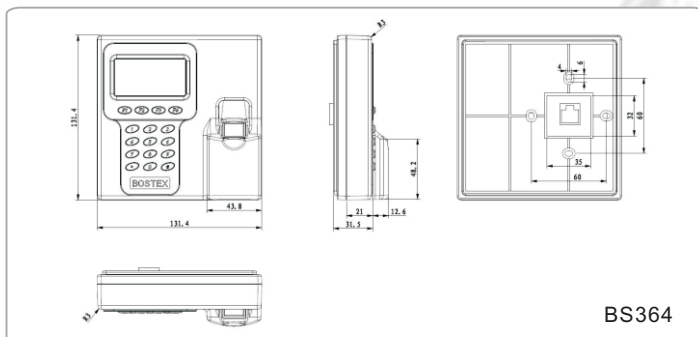




BS364

Dimensions (Unit: mm)



Features

- ★ Design with 32 bit ARM Processor, speed up to 200MHz; running on embedded LINUX OS.
- ★ Supports up to 1900 and 9500 fingerprint templates, matching time < 1 second.
- ★ Single door controller, controlling IN and OUT of a door.
- ★ Store up to 100,000 cards and 100,000 off-line transactions.
- ★ Standalone Operation or direct connection to PC via TCP/IP. Connection via TCP/IP converter is not required. Transmission speed up to 100 Mbps.
- ★ Fingerprint templates auto renew feature. When live fingerprint data changes is detected (e.g. skin peeling), controller will automatically renew the template data with the current capture data.
- ★ Each user able to enroll up to 10 fingers for duress alarm activation, dual finger verification and auto renewal.
- ★ Rapid matching features to increase fingerprint identification speed up to 10 times.
- ★ Support different access control operation include dual finger verification, time zone control, anti-passback, multiple card ID verification.
- ★ Intuitive menu system supported by integral backlit Graphic LCD and keypad.
- ★ Multiple language support.
- ★ Operation Mode: Fingerprint Only, Card + Fingerprint, ID + Fingerprint, Fingerprint + PIN, Card Only, PIN Only, Card + PIN and etc.
- ★ Supports built-in reader module include EM, Mifare, HID, iClass, CEPAS, T1 and CPU card reader. Up to 2 Fingerprint templates can be stored in Mifare Card.
- ★ Recoverable up to the latest 100,000 transaction if back end system failure.
- ★ Firmware Online Upgrade via TCP/IP.
- ★ Built-in Sedona Framework™ supported field programmable logic and managing BMS integration at the lowest level; provide decision power at the edge device level.
- ★ CE Certified.

Overview

Bs364 from Bostex provides an extremely powerful and user friendly stand-alone fingerprint access control solution. Featuring an impressive 1900-9500 fingerprint capacity.

It offers many features found only in more expensive access control panels. An integral LCD and keypad not only provides the means to easily program and configure the unit but also displays access status messages and allows the implementation of PIN used in conjunction with the card, enhancing security further.

Functional List

Function	Description
Operation Mode	Support Fingerprint Only, Card + Fingerprint, ID+Fingerprint, Fingerprint + PIN, Card + Fingerprint + PIN, ID + Fingerprint + PIN, Card Only, PIN Only, Card + PIN, ID Only.
Connection to External Wiegand Reader	Supports 26/34 bit and free wiegand card reader
Free Wiegand Setting	Yes
Connection to External BS Fingerprint Reader	Yes, via wiegand port
Connection to PC	(1) Via TCP/IP or RS485 (2) Setup Controller ID 001-255 via keypad (3) Setup IP Address, Subnet Mask and Gateway via keypad
Fingerprint Self Enrollment	Yes, self enrolled fingerprint template auto upload and save to PC database.
Auto Download Fingerprint template	Yes
Read Fingerprint Template from Card	Mifare card is able to store up to 2 templates at definable card sector
Write Fingerprint Template to Card	(1) Write template directly to Mifare Card at designated card sector by controller (2) Enroll using desktop fingerprint reader and write template to card using Mifare desktop reader
Fingerprint Verification Security Level	1-5 Level, Default is 2. The matching time is proportional to higher security level.
Fast Matching Mode	Supports up to 6 levels. Faster matching time is proportional to higher FRR rate.
Auto Scan	Supports fingerprint auto scan operation.
Dual finger verification	2 fingers from the same user need to be verified before granting access.
Duress Alarm finger Lightings Condition	Yes
Enrollment Quality	Supports Indoor or Outdoor usage. Adjustable fingerprint enrollment quality. Default is 90. The lower the setting the higher the FAR.
Image Quality	Adjustable fingerprint image quality during enrollment.
Sensor sensitivity level	Adjustable sensor sensitivity level when capture fingerprint image.
Enrollment Mode	Supports one or two fingerprint template registration per finger for auto renewal feature.
Alarms Function	Supports Door left open alarm, Door force open alarm, Tamper alarm, Fire alarm and local alarm.
Other Functions	Same function as BS511

Active TCP/IP Fingerprint Reader

BOSTEX

Active Reader Series

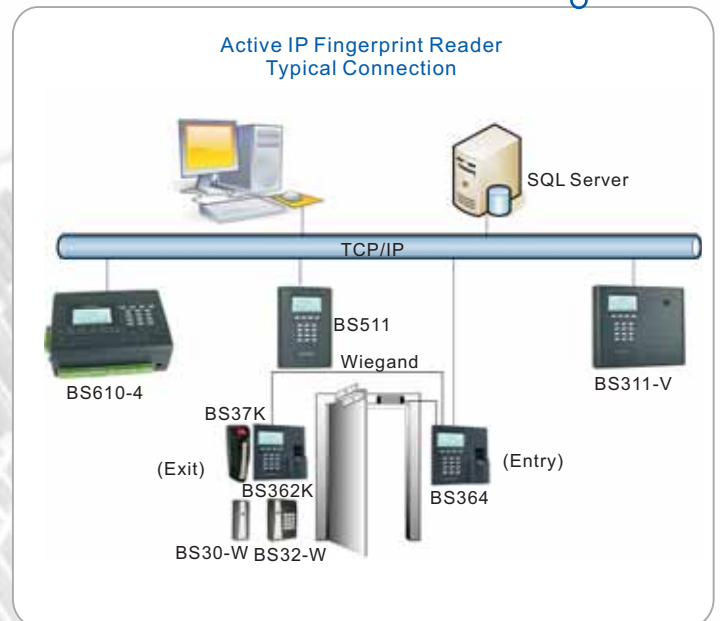
BS364

Technical Specification

Parameter	
CPU for Door Control	32 bits ARM9 processor, speed up to 200MHz
CPU for Fingerprint	400MHz DSP
Operating System	LINUX
RAM	64MB
Flash	16MB
Fingerprint Sensor	500dpi optical (Scratch free sensor surface)
Fingerprint Capacity	Supports 1900 or 9500 templates.
Identification time	< 1 seconds
False Acceptance Rate(FAR)	Adjustable between 1/10,000 ~ 1/100,000,000
Equal Error Rate (EER)*	< 0.1%
No. of finger enroll per user	Up to 10
Number of Doors	1
Connect Wiegand Reader	2
TTL Alarm Input	1
Door Sensor	1
Exit Push Button	1
TTL Alarm Output	1, 5V/300mA
Alarm Relay Output	1, 12V/1A
Door Relay Output	1, 12V/1A
Tamper Switch	1
Card Capacity	100, 000
Card Response Time	Less than 0.5 seconds searching from a 100,000 card capacity
Record Capacity	100, 000
Serial COM Port	2; COM1 connect either to PC via RS485 or download template to 2nd level fingerprint reader; COM0 RS232, reserved for factory setup.
TCP/IP	1, 10/100 Mbps
USB	2 Master USB
Keypad	4x4 (0-9, *, #, F1-F4); Blue Backlit
LCD	128x64 pixels Graphic; White Backlit
Buzzer	1; Audible sound able to distinguish between valid and invalid card.
Supported Languages	English, Simplified & Traditional Chinese
Real Time Clock Battery	CR2032, 3V
Power Supply	9~30VDC, 600mA
Operating Environment	-10~50°C
Dimensions	132 x 132 x 49 mm
Weight	360g
Casing	ABS flame-resistant
Mounting	Wall surface mount

*EER means "Equal Error Rate" which is an error rate when FAR is equal to FRR. In our module, FAR can be controlled by setting "security level" parameter, 1/10,000 to 1/100,000,000. FRR varies with each FAR. For example, when setting FAR at 1/100,000 as default, FRR is roughly around 1%.

Connection Diagram



Model Selection

Model	Description
BS364	Active IP Fingerprint Reader
BS364-E	Active IP Fingerprint Reader, built-in EM Card reader, read range up to 5cm
BS364-M	Active IP Fingerprint Reader, built-in Mifare Card reader, read range up to 2.5cm
BS364-H(R)	Active IP Fingerprint Reader, built-in 125KHz HID Card reader, read range up to 2.5cm
BS364-IC	Active IP Fingerprint Reader, built-in iClass+CEPAS+Mifare(CSN) Card reader, read range up to 2.5cm

Remark:
If need to purchase fingerprint controller with 9500 templates, please append (9500) behind the above model (e.g. BS364-E(9500)).

Accessories

Model	Description
BSDU	Remote Door Unit install in secure area to connect Door Sensor, Push Button, Alarm Input, Door Lock and Alarm Output.