

**Bluewest.de**

info@Bluewest.de

**ADDRESS:**

Neuer Wall 71, c/o WorkRepublic

20354 Hamburg

Germany

**TEL & FAX:** +49 40 99 99 94 42 9



**BLUE WEST**  
GmbH

SECURE AND CREDENTIAL  
FINGERPRINT IDENTIFICATION,  
TIME & ATTENDANCE / ACCESS  
CONTROLLER

Access Solutions Consulting  
& Sales Company

For impressive entrances  
For high quality solutions  
For many applications



# SECURE AND CREDENTIAL FINGERPRINT IDENTIFICATION, TIME & ATTENDANCE / ACCESS CONTROLLER

## BW-FINGER007SRB

- Reads the Smart Card that encoded Fingerprint and ID;
- Standalone Operation without PC / Server Connection;
- Able to Scan Fingerprint from Any Angle;
- Fake Fingerprint Detection: Auto on Function & LIVE Fingerprint Detection;
- Communication: TCP/IP, RS485, RS232;
- Protect against Security & Privacy Attack.



## BW-FINGER007SRB

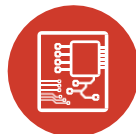
*Security is Maximized  
as the Fingerprint is Stored  
on the SmartCard, Not in  
Fingerprint Reader*



Fingerprint  
Recognition



RFID Reader  
& Card



Access  
Controller

# SECURE AND CREDENTIAL FINGERPRINT IDENTIFICATION, TIME & ATTENDANCE / ACCESS CONTROLLER

## Key Features

### BW-FINGER007SRB



- BLUE WEST 13.56MHz Secure and Credential Smart Card & Fingerprint;
  - Reads the Smart Card that encoded Fingerprint and ID;
- Standalone Device with Internally Embedded Controller;
- Standalone Operation without PC / Server Connection;
- Fingerprint Identification without using any cards or keypads;
- 4 Function Keys for Time & Attendance Applications;
- Communication: TCP / IP, RS-485, RS-422, RS-232;
- User / Event Buffers Up to 50.000 Users / Up to 50.000 Events;
- Able to Scan Fingerprint from Any Angle;
- Fake Fingerprint Detection : Auto on Function & LIVE Fingerprint Detection;
- Automatic System Reset via Self-Diagnosis (Watchdog Function);
- Verify ID without Centralized Database;
- The advantage of using Smart card for Fingerprint Authentication is that the Fingerprint information of the user is stored in the Smart card;
- Store your Fingerprint on your Smart Card;
  - The identity can be verified without relying on a centralized storage of user database.

# SECURE AND CREDENTIAL FINGERPRINT IDENTIFICATION, TIME & ATTENDANCE / ACCESS CONTROLLER

## Key Features

### BW-FINGER007SRB



- Protect against Security & Privacy Attack
    - As the user carries with user fingerprint information stored Smart card, this solves the problem of maintaining and synchronizing a central database, Scaling the system with increasing number of users and the need to protect the database and server from security attack as well as privacy concerns on the use of the biometric information;
  - Privacy Protection;
    - Security is Maximized as the Fingerprint is Stored in the Smart Card, not in the Device or Database
  - High Security Level;
    - The personal biometric data is stored inside the personal Smart card, which eliminates all possibility of personal data being exposed to the public and need for management of separate database or templates;
  - Output Format: 26-Bit Wiegand;
  - Operation Mode: Smart Card(PIN) + Fingerprint, Smart Card(PIN), Smart Card(PIN) + Password + Fingerprint;
  - Compatible Software: BLUE WEST Standard Series, BLUE WEST Time Pro;
  - Compatible Smart Card: BW-ISC80B, BW-ISK50B, BW-IMC135B;
  - Compatible RFID Readers: BW-SR10BE, BW-SR30B, BW-SRK101B, BW-SR10VB, BW-SR30VB, BW-SRK101VB;
  - Standalone Controller (Fingerprint / RFID): BW-XO100SRB, BW-FINGER007SRB, BW-SR505B;
  - Compatible Fingerprint Reader: BW-LX006SRB, BW-FINGER006SRB, BW-FGR006SRB;
- \* SRB products are only compatible with SRB Series products.

# SECURE AND CREDENTIAL FINGERPRINT IDENTIFICATION, TIME & ATTENDANCE / ACCESS CONTROLLER

## Specifications



Model		FINGER007SRB	
CPU		32 Bit ARM9 and Dual 8 Bit Microprocessor	
Memory	Program	128 K Byte Flash Memory	
	Data	1 M Byte Flash Memory	
Fingerprint User		Unlimited (Fingerprint Template and User ID are stored on Smart Card not Fingerprint Reader)	
ID User		Up to 50.000 Users (Including Fingerprinting Registration)	
Event Buffer		Up to 50.000 Events	
Radio Frequency (RF)		13.56 MHz	
Read Range (Compatible Card Type)		ISC80B : Up to 4 Inch (10 cm) ISK50B / IMC135 B : Up to 2 Inch (5 cm)	
Reading Time (Card)		30 ms	
Verification Time		Less than 1 sec.	
Identification Time		Less than 2 sec.	
Fake Fingerprint Detection		Auto on Function & LIVE Fingerprint Detection	
Power / Current		DC 12V / Max. 300 mA	
External Reader Port		1 EA: 26bit Wiegand (for Anti-Passback) 4 / 8bit Burst for PIN	
Communication		TCP / IP, RS 485, RS 422, RS 232 (Max. 32 ch)	
Communication Speed	TCP / IP	10 / 100 Mbps	
	Serial	9.600 bps (Default) / 19.200 bps / 38.400 bps / 57.600 bps / 115.200 bps (Selectable)	
Input Port		4 EA: Exit Button, Door Sensor, Aux#1, Aux#2	
Output Port		2 EA: 2 FORM-C Relay Output (COM, NO, NC) / DC 12 V~18 V, Rating Max. 2 A	
		2 EA: TTL Output / DC5 V, Rating Max. 20 mA	
		Can be used in 26 Bit Wiegand, using the 2TTL Outputs	
Tamper Switch		2 EA	
LED Indicator / Beeper		7 LED Indicators / Piezo Buzzer	
LCD		Character LCD (2 Lines x 16 Char) 65.6 x 13.8 mm (2.62" x 0.55") Screen	
Keypad		16 Numeric Keypad with Back Lightings / Membrane	
Operating Temperature		Fingerprint Module: -15°C ~ +40°C (5°F ~ 104°F)	
		LCD: 0°C ~ +50°C (+32°F ~ +122°F)	
		Controller: -15°C ~ +70°C (+5°F ~ +158°F)	
		RF Reader: -35°C ~ +65°C (-31°F ~ +149°F)	
Operating Humidity		10% ~ 90% Relative Humidity, Non - Condensing	
Color / Material		Dark Pearl Gary / Polycarbonate	
Dimension (W x H x T) / Weight		161.5 mm x 134 mm x 48.5 mm / 547 g (1.21 lbs)	
Certification		FCC, CE, KCC, RoHs	

### Fingerprint Module Specification

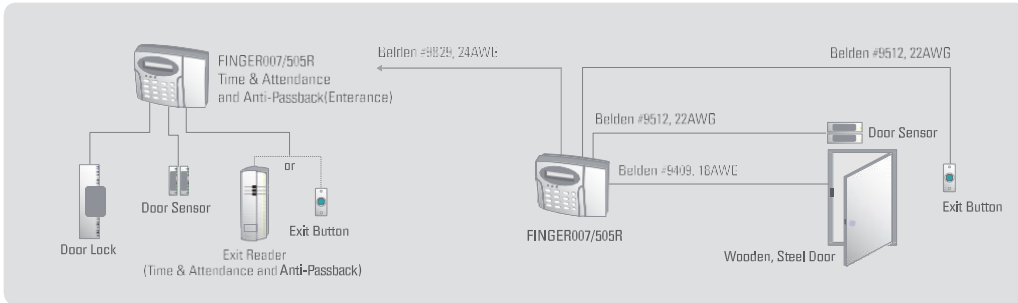
Resolution	500 dpi	Scanner	High Quality Optical Sensor
Capture Image Size	640 x 480 pixels	FAR	0.001%
Extract Image Size	260 x 300 pixels	FRR	0.1%
Sensor Area	15 x 18.5 mm	ESD Tolerance	±8 KV

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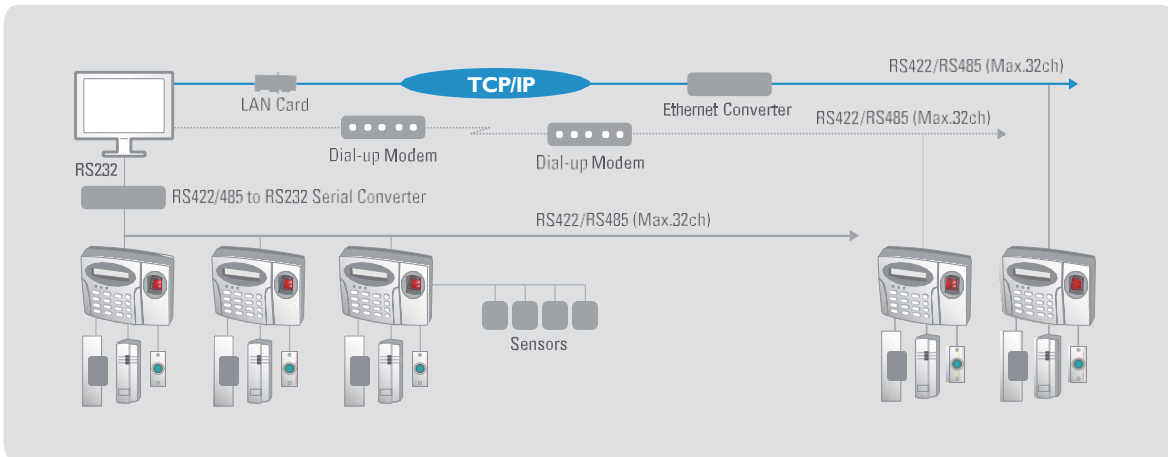
## BW-FINGER007SRB Configuration



### Standalone Configuration



### Network Configuration



Thank you for your attention