QR Code
Scanner Lock
Datasheet

Product Name	QR Code Scanner Lock	Product Type		QR Code Smart Lock
Structure	Rakinda	**Hardware**		Rakinda
Features				
Marks	GB6063 Die Casting CNC 6V 8pcs 1.5V alkaline batteries Security Encrypted Chip Weischool Management Platform Offline password sending Wireless power switch Low power consumption Real-time uploading door opening and closing info (including keys and password opening) Sending valid password and qr code by server			
Product Pictures				

Specifications

Serial Number		Specific Items	Description	Notes
1	System	Low Voltage Alarm	≤ 4.8V	
		Standby power supply	Micro USB 5V1A	
		LED	12 pcs white LET; 2xRGB	
		Battery	Dry battery, 6V 8pcs 1.5V alkaline battery	
		Password groups	100	
		Door lock storage records	500	
		IP	IP 54	
2	Working Environment	Electrostatic prevention	contact ±8KV, air ±15KV	
		Working humidity	10% ~ 95%RH	
		Working temperature	-20℃ ~60℃	
3	Whole machine Specifications	Dimensions	350*69*22mm	
		Data encryption	Hardware encryption	
		Unlock methods	Password, emergency keys, APP, qr code, bluetooth mesh	
		Material	National standard aluminum CNC machining	
		Surface technology	Sand blasting technology of anodic oxidation fine carving	
		Color	Grey, champagne	
		Lock body	5050 electronic lock body (electronic anti lock)	
		Door Lock Bolt	Three lock tongue	
		Lock cylinder	Class B anti-theft lock core	
		Double lock body logo	A label showing the SN number of the lock is affixed to the outer door lock body and the side wall of the battery inner compartment	
		Mechanical key	2 keys	
		Applicable door type	Wooden doors, security doors, bronze doors	
		Applicable door thickness	40-120MM （Standard accessories are only suitable for 40-60mm thickness）	
		Door handle reversal	Door handle left and right direction switching function	
4	Power Consumption	Standby average power consumption	≤80 uA	
		Standby time	>11 months	
		NB Dynamic power consumption	Send: 200mA， Receive: 60mA	

		Total dynamic power consumption, with NB	<220mA（NB Transient power consumption for sending and receiving data to be optimized）	
		Normal use time	>7 months	
		Opening time	3s	
		Total times of opening and closing doors	8000 times	
5	Information Query Function	Time query	The door lock will actively check the time with the server every day, and can also passively respond to the server time and time query instructions	
		Firmware version query	Cloud command query	
		Door opening and closing record query	Cloud command query	
		Power query	Cloud command query	
6	QR Unlock	QR scanner module	LV4200-PT	
		QR code authority management	The QR code contains the ID information of the door lock that the current personnel has the authority to operate, for the lock to compared, and if the comparison is successfull, then open the door. The specific authority identification is completed by the background server.	
7	Password Unlock	Number digital buttons	12 capacitive touch buttons	
		Password setting digits	Effective password digits 6~10	
		Disguise password	When using a password to open the lock, you can enter any combination of numbers before or after the correct password, the total number of digits is not more than 16	
		Password Management	Support classification management of administrator password, temporary password, ordinary password and offline password. The timeliness of issuing ordinary passwords and temporary passwords is jointly realized and guaranteed by the preset password mechanism and the wake-up synchronization mechanism. The password has the function of time and frequency limitation.	
		Reset	Hidden reset button	
8	Hardware Encryption Function	Encryption chip	Hangzhou Shengyuan AS569 financial-grade security encryption chip	
		Communication encryption	Use random number + SM4CBC method to encrypt and protect sensitive data in the door lock and background communication	
9	Door Lock ID		The door lock has a unique ID, which is uploaded to the server during registration and when the door lock is reported, to identify different door locks	
	Data	Password Unlocking	Unlock records stored, uploading once each day	
		IC card unlocking	Unlock records stored, uploading once each day	

10	Uploading	QR Code scanner unlocking	Unlock records stored, uploading once each day	
		Lock and Unlock	Electronic lock, detected through triangular tongue	
		Factory Default	Lock restores factory default, clear all passwords and binding information, automatically binding after inserting the card	
11	Panel prompts functions	QR code scanner prompt	Scanner indicator light: no light before scanning; red light for verification failure and green light for successful scanning. Red light for low battery alarming and wrong password retries exceeding the specified times.	
		QR code scanner unlock prompt		
12	Voice Function	Voice languages	Chinese, Cantonese or English	
		Mute function	Cloud command settings	
		Voice navigation	Voice prompting door lock operation steps	
		Volume adjustment	Cloud command setting	
		Alarm prompt	Anti-pry alarm, multiple wrong password alarm	
13	Alarm Function	Anti-pry alarm	Lock terminal voice alarming + real-time data uploading alarming	
		Continuous password error	Any unlocking method, if failing for 5 times continuously, system will alarm and lock it for 5 minutes.	
		Low voltage alarm	Low voltage alarm on lock panel + low battery event uploading	
14	Networking performance parameters	Data uploading delayed	NB<10s （Ignore network delayed）	
		Offline binding	Support binding operations between lock and gateway without network	
		Data distribution delayed	NB<8h (Ignore network delayed)	
15	Awakening way	Untimely awakening	The system will not be awakened until 2 inputted Numbers are collected. Its purpose is to eliminate the confusion of the valid inputting numbers due to immediately awakening after touching	
		timely awakening	Immediately awakening system after touching the key at the first time	
16	Heartbeat set	NB	Perform data synchronization with the server once at least every 8 hours. Performing a synchronous operation with the server with each wakening. In order to achieve optimal power consumption, active synchronization operation can replace heartbeat and adjust according to actual effect and power consumption.	
17	Preset password mechanism	The specific preset numbers can be adjusted dynamically according to the actual business needs	Multiple passwords are stored to the door lock at one time through NB link, and take the saved password from the server of door lock directly when it needs to be used later, so as to solve the problem of NB link delayed.	

18	Synchroniz ation mechanism	Awakening synchronization	Take the releasing data from the server from NB link immediately after the door lock is awakened by user. Can set interval awakening synchronization, It may not synchronize every awakening.	
		synchronization of Special key	Input a special key to start the synchronization process in order to save power	
19	Function of Time synchroniza tion	Passive synchronization	The cloud server or gateway can issue command to set the lock time after the door lock is connected to the gateway.	
		Active synchronization	The door lock can check the time (every 12 or 24 hours) with the server by NB link actively.	
		Synchronization after power down	The door lock can keep the real-time operation and accuracy when the network is disconnected or the door lock battery is off for a long time (no less than 365 days)	
20	Local detection	Locked inside	Password and card can't open the door after locked inside; take power after locked inside.	
21	OTA	Function of upgrading online	Upgrading online by NB	
22	Bluetooth mesh		Can realize all functions done by NB, and can be chosen as main link	