

# SMART KEY System Host

Model Name: SMART KEY SYSTEM Host

Trade Name: 2W SKS

Model Number: WR00098800T1

Type:S100324800

L.O freq: 8MHz

## Electrical Specifications Characteristics :

Item	Specifications	Remarks
Rated voltage	DC12V	-
Operation voltage	DC8V~16V	-
Dark current	<1mA(max)@12VDC	Passive mode
RF receiving frequency	433.92MHz $\pm$ 250KHz	-
LF transmitting frequency	125KHz $\pm$ 2.5KHz	-
Communication format	N/A	
RF Modulation method	FSK	-
Operating temperature range	-30°C ~+80°C	-
Storage temperature range	-40°C ~+85°C	-

## PHOTOGRAPHS :



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P.C.B (Front) :



P.C.B (Back) :



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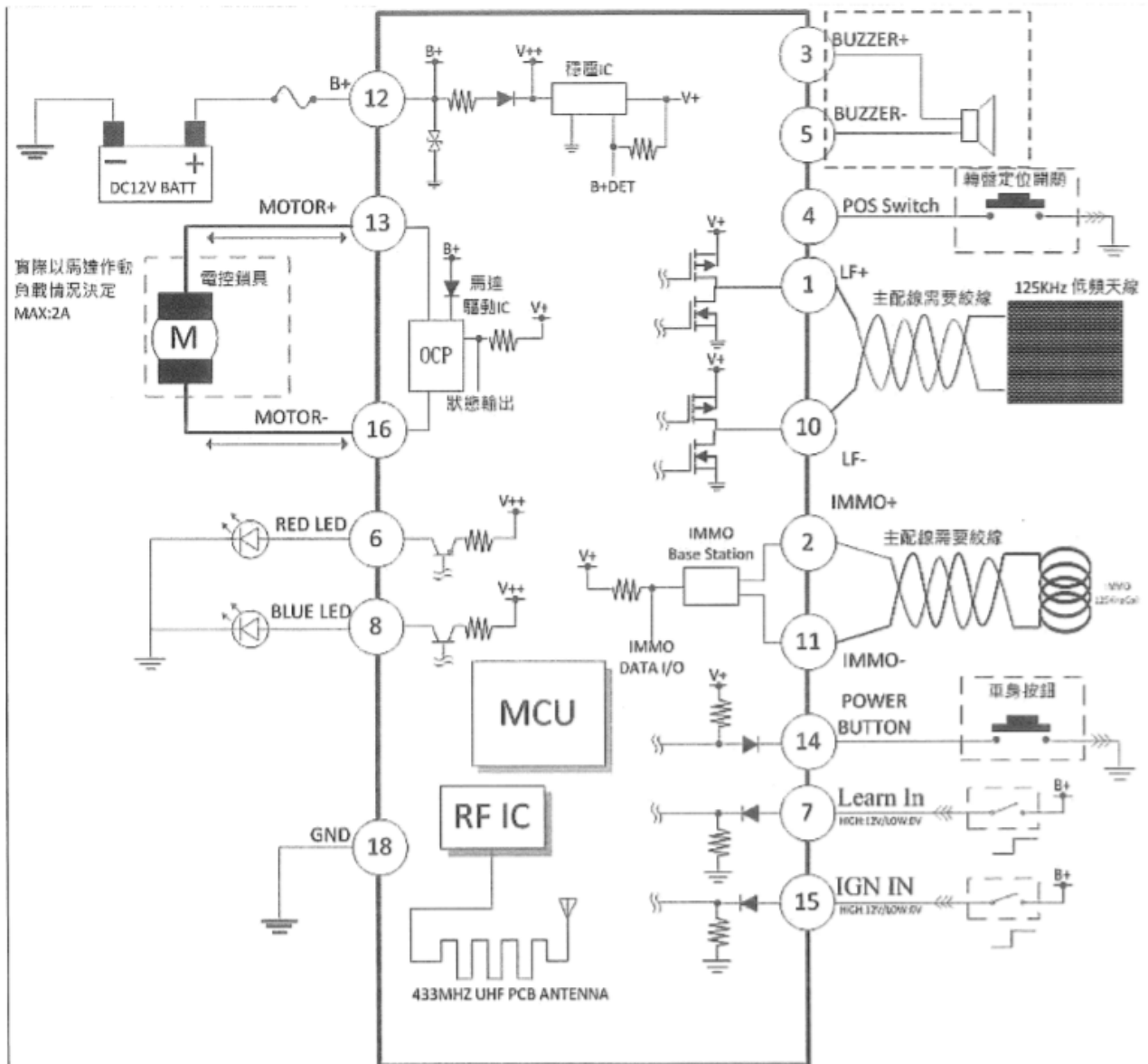
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## Block Diagram :

4.系統圖(SYSTEM DIAGRAM)



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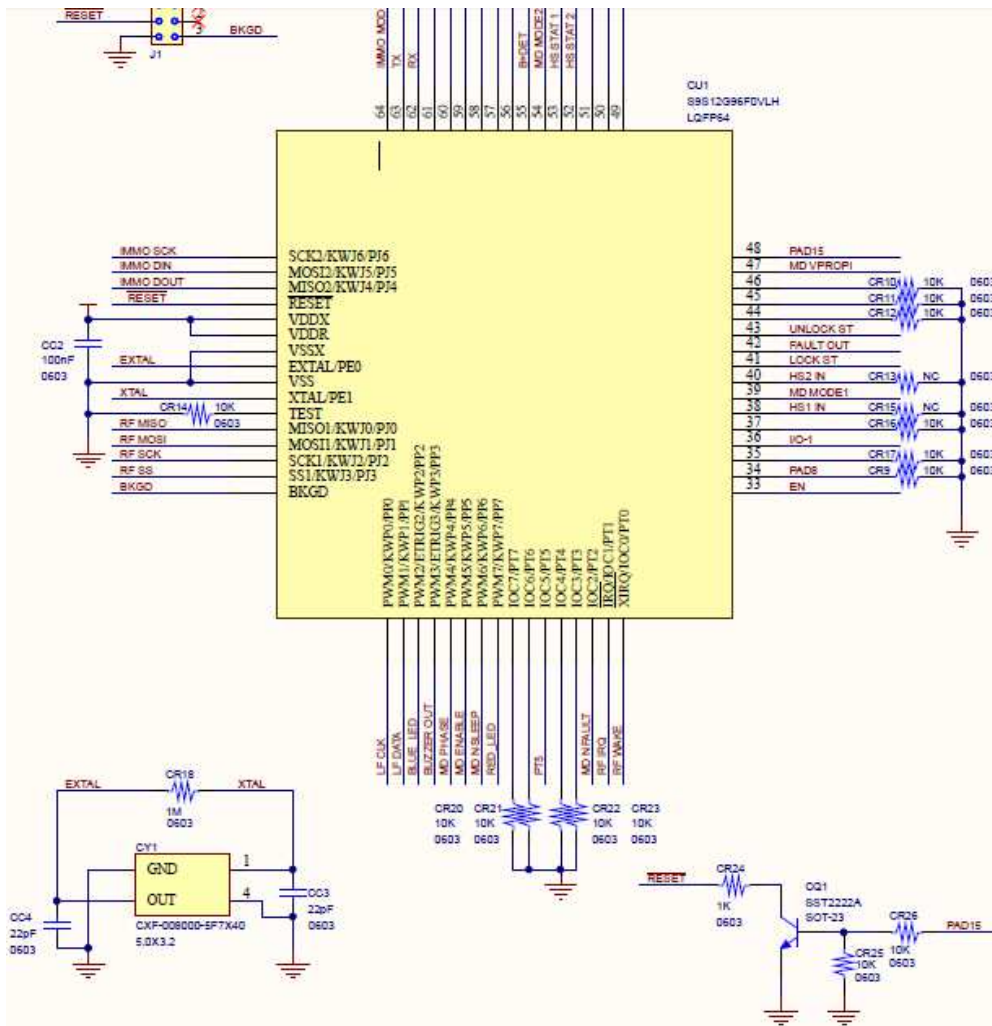
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## Roadmap :



## Cautions:

- To prevent electric shock or short circuit damage, please ask a qualified technician for installing.
- Please use an independent power supply so that the failure caused by the unstable power will not occur.
- Metal will block the radio signal. Therefore, stay away from metal when installing the product. Remote control distance will also become shorter when there is a same frequency signal around.
- Adjacent products should be separated at least 3 meters.
- If there is a malfunction of the product, please contact the service department.

## Functional check list

NO.	Check Items	Detail items	Condition	Operation(Input)	Result	判定	備註
1	HOST	Identification Fail (Immo Coil)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key on the surface of the Immo. Coil 2.5mm</li> <li>● The smart key need to remove battery or disconnect LF antenna ◦</li> </ul>	1.Move the smart key away from sensing area(more than 5cm) ◦ 2.Push power bottom at 300ms	If identification fail , the host goes into standby and do not do anything.	<input type="checkbox"/> OK <input type="checkbox"/> NG	Immo sensing Distance 8cm
2	HOST	Identification Fail (Immo Coil)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key on the surface of the Immo. Coil 2.5mm</li> <li>● The smart key need to</li> </ul>	Move the smart key away from sensing area(more than 5cm) ◦	1.Identification after every 3 seconds 2.If identification fail , system will lock 3.The buzzer sounds for 500ms.	<input type="checkbox"/> OK <input type="checkbox"/> NG	Remove the smart key more than 10 cm.

			<p>remove battery or disconnect LF antenna ◦</p> <ul style="list-style-type: none"> <li>● If identification Pass, system unlock</li> </ul>		<p>4.Red LED lights up for 2 seconds ◦</p> <p>5.Extinguish the blue LED ◦</p>		
3	HOST	Lock(Immo Coil)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key on the surface of the Immo. Coil 2.5mm</li> <li>● The smart key need to remove battery or disconnect LF antenna ◦</li> </ul>	<p>Turn the dial to switch the IGN status</p> <p>IGN OFF→IGN ON →IGN OFF one time.</p>	<p>1. Identification after every 3 seconds.</p> <p>2. If identification fail ◦ system will lock.</p> <p>3. The buzzer sounds for 500ms.</p> <p>4. Red LED lights up for 2 seconds.</p> <p>5. Extinguish the blue LED.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
4	HOST	Unlock(Immo Coil)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> </ul>	<p>Change IGN OFF/IGN OFF2 Switch to IGN ON</p>	<p>1.System will lock</p> <p>2. Blue LED will light up slowly</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
5	HOST	Identification Pass(Antenna)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V.</li> <li>● Place the smart key within the surface of the LF antenna 150cm.</li> <li>● The lock is locked.</li> </ul>	<p>Power Bottom pressed 300ms</p>	<p>1. If identification is successfully , the drive lock is unlocked, and the blue LED will slowly light up.</p> <p>2. Buzzer short beep 2 (ON/OFF:100ms/100ms)</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
6	HOST	Identification fail(Antenna)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key outside the surface of the LF antenna 300cm.</li> <li>● The lock is locked.</li> </ul>	<p>1.Place the smart key outside the surface of the LF antenna 300cm.</p> <p>2.Power Bottom pressed 300ms.</p>	<p>If identification failed, no action is taken, the host goes into standby</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
7	HOST	Identification margi(Antenna)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key within the surface of the LF antenna</li> </ul>	<p>1.Power Bottom presses 300ms for system unlock.</p> <p>2. Place the smart key</p>	<p>1. The system first recognizes the unlock and then enters the 3 second identification.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	

			<p>150cm.</p> <ul style="list-style-type: none"> <li>● The lock is locked.</li> </ul>	<p>surface of the LF antenna within 230cm~260 cm, and press the power button again.</p>	<p>2. After counting 2 seconds, press Power Button to perform locking action.</p> <p>3. The system performs lock, and the buzzer sounds for 500ms.</p> <p>4.Red LED light up for 2 seconds.</p> <p>5. Extinguish the blue LED.</p>		
8	HOST	Identificaton fail(Antenna)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key within the surface of the LF antenna 150cm.</li> <li>● Identification first, after the system is unlocked.</li> </ul>	<p>Place the smart key outside the surface of the LF antenna 300cm.</p>	<p>1. Identification after every 3 seconds of counting.</p> <p>2.Identification failed, system execution lock</p> <p>3. The buzzer sounds for 500ms.</p> <p>4. Red LED light up for 2 seconds.</p> <p>5. Extinguish the blue LED.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
9	HOST	Lock(Antenna)	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> </ul>	<p>Change IGN OFF/IGN OF2 Switch to IGN ON.</p>	<p>1.System execution lock.</p> <p>2.The blue LED will slowly light up.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
10	HOST	Lock	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key surface of the LF antenna within150cm~300 cm.</li> </ul>	<p>If the turntable is pressed, touch the positioning signal Pull Low.</p>	<p>The system cannot perform locking.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	
11	HOST	Lock	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key within the surface of the LF antenna 150cm.</li> </ul>	<p>1.Power Bottom pressed 300ms</p> <p>2. Positioning signal Pull Low.</p>	<p>1.Red LED ON/OFF (500ms/500ms) , continued 10 seconds.</p> <p>2.Buzzer sound ON/OFF (500ms/500ms) , continued 10 seconds.</p>	<input type="checkbox"/> OK <input type="checkbox"/> NG	



					3.System power off.		
12	HOST	Lock	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key within the surface of the LF antenna 150cm.</li> </ul>	<ol style="list-style-type: none"> <li>1.Power Bottom pressed 300ms.</li> <li>2.Positioning signal Pull Low.</li> <li>3. During the warning reminder time, after the positioning signal Pull Low is released</li> </ol>	<ol style="list-style-type: none"> <li>1.停止警示提，並執行上鎖。</li> <li>2. The buzzer sounds for 500ms.</li> <li>3.Red LED light up for 2 seconds.</li> </ol>	□OK □NG	
13	HOST	Lock	<ul style="list-style-type: none"> <li>● Power input 12V±0.1V</li> <li>● Place the smart key within the surface of the LF antenna 150cm.</li> <li>● Turn the dial to switch the IGN status IGN OFF→IGN ON →IGN OFF one time.</li> </ul>	<ol style="list-style-type: none"> <li>1.Power Bottom pressed 300ms</li> <li>2. Positioning signal Pull High.</li> </ol>	<ol style="list-style-type: none"> <li>1. System execution lock.</li> <li>2. The buzzer sounds for 500ms.</li> <li>3. Red LED light up for 2 seconds.</li> </ol>	□OK □NG	

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.



If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- R orient or relocate the receiving antenna.
- n crease the separation between the equipment and receiver.
- C nnect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- C nsult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:**

- (1) this device may not cause interference,
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.