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Bluetooth Key Controller

BLEF-H-01

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Product Introduction

The independent bluetooth key controller supports BLE5.1, meeting the requirements for

BLE wake-up, connection, authentication, and remote control.

It enables functions such as APP key activation, pairing, vehicle control, and logout without the need for servers (i.e., without PKI/DCK/TSP servers) or other infrastructure.

Function usage instructions

2.1 Bluetooth key request

The car owner can complete the binding of the APP and Bluetooth key through the diagnostic instrument in the 4S shop, and can use the smart key short-range control function through the mobile APP after binding.

2.2 Bluetooth key control window

Within the valid range of BLE, the user can lift the window through the mobile phone APP. If the window is lifted successfully, the user is prompted that the operation is successful; If the window lift fails, the mobile phone APPwill prompt the user that the window control fails.

2.3 Bluetooth key unlock and lock

Within the valid range of BLE, the user can unlock the vehicle through the Bluetooth key APP on the mobile phone. If the unlock is successful, the user will be prompted to operate successfully; If unlocking fails, the user will be informed through the mobile APP that the window control fails.

2.4 Bluetooth find vehicle

Within the valid range of BLE, the user can search for the vehicle through the mobile APP, if the search is successful, the user will be prompted to find the car successfully; If the search fails, the mobile APP prompts the user that the search fails.

Electric parameter

Category	Project	Requirement	Remark
Electrical requir	Operating voltage range	9-16Vdc	Diagnostic voltage range
	Operating temperature	-40-C-+85t:	–

ement	storage temperature	-45-C-+85t:	–
	Relative humidity	5-95%RH	–
	Static current	< 4mA	
Location	Precision	20cm, Car overflow< 30cm	–
	Distance	Search vehicle distance>40m	Basement scene
CAN	rate	2Mbps	CANFD
	Number of channels on the primary node	1	1 Route gateway CAN
Defend	Waterproof and dustproof grade	IP52	–
MCU	Frequency	120MHz	
	RAM	256KB	
	Flash	1MB	
Bluetooth	Clock	48MHz	
	RAM	128KB	
	Flash	512KB	
	Frequency	2.4GHz-2.484GHz	
	Modulation system	GFS	
		Receiving current 6mA	
	Low power mode		

		Transmitting current (OdBm) 6.5mA	

FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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:

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

— Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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Documents / Resources

	[SERES BLEF-H-01 Bluetooth Key Controller](#) [[pdf](#)] User Manual 2BORR-BLEF-H-01, 2BORRBLEFH01, blef h 01, BLEF-H-01 Bluetooth Key Controller, BLEF-H-01, Bluetooth Key Controller, Key Controller, Controller

References

- [User Manual](#)

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