



USER MANUAL

PAGE

1/6

ESTABLISHED BY
MOBASE ELECTRONICS

BLE MODULE

SPEC NO.

Contents

1. GENERAL INFORMATION

2. ELECTRICAL CHARACTERISTICS

1	Changed the block diagram	ALL	2021.01.21	K H KIM
0	RELEASED	ALL	2019.08.07	C K SON
Rev.NO	DESCRIPTION OF CHANGE	CHANGE PAGE	REV. DATE	REV. BY
REL. DATE 2019.08.07	REFERENCE	SORT	PREPARED	CHECKED
Original archive (PLM SYSTEM)		APPR OVAL	K H KIM	H S KIM
				J H LEE



USER MANUAL

SPEC NO

SHT/SHTS 2/6

Date	Ver .	Editor	Chap .	Description	CR#
19.08.07	0.0	C.K SON	ALL	REALESE	

Contents list page

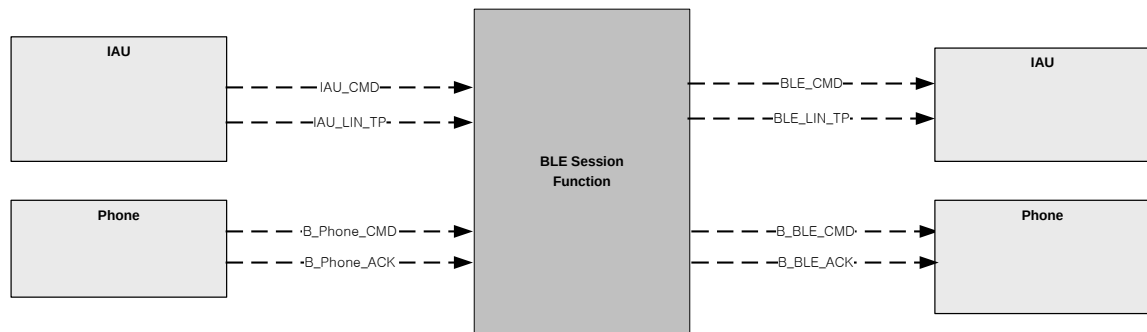
1. GENERAL INFORMATION	4
1.1. Scope of BLE MODULE	4
1.2. System configuration.....	4
1.3. System overview.....	5
2. ELECTRICAL CHARACTERISTICS	5
2.1. Operating characteristics of BLE MODULE.....	5
2.2. Operating characteristics of PHONE	6

Picture 2: System Block diagram

1.3. System overview

The BLE MODULE is used radio frequency when sending RKE¹ data, the PHONE is operated by distinguish the RKE command data

- ① BLE MODULE (Transmitter) is connected with mobile phone (receiver) and presses the button of mobile phone APP (Lock, Unlock, Trunk, Panic)
- ② BLE MODULE modulates data to FSK and transmits RKE data using an RF frequency(2.4~2.48GHz)
- ③ PHONE(receiver) distinguish the RKE command data and transmit command after check the door, trunk state
- ④ Door lock, unlock, trunk open, panic(option) function is activated



Picture 3: Functional Data Flow Diagram

2. ELECTRICAL CHARACTERISTICS

2.1. Operating characteristics of BLE MODULE

ITEM	SPECIFICATION
Rated supply voltage	DC 12V
Operating voltage range	DC 9 ~ 16V
Operating temperature range	- 40 ~ + 85℃
Storage temperature range	- 40 ~ + 85℃
Modulation	FSK
Frequency	2.4~2.48GHz
Data Coding Method	Manchester code

Table 1: Electrical characteristics of 2.1. BLE MODULE

¹ Remote Keyless Entry



2.2. Operating characteristics of PHONE

Item	Specification
Rated Supply Voltage	-
Operating Voltage	
Operating Temperature	
Max Humidity	
Standby Current	

Table 2: Electrical characteristics of PHONE

FCC Information to User

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 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.

Caution

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

English:

This device complies with Industry Canada 's license - exempt RSSs. Operation is subject to the following two conditions:

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

French:

Le présent appareil est conforme aux CNR d'Industrie 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radio électrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FCC Compliance Information : 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

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.