2018

User Manual

ZCC RB4

FCC ID :2AR3JRRB4

Introduction

Thank you for buying ZCC RB4! For support and help, please, e-mail at support@myremoto.com or call +7.495.929.7075.

What is ZCC RB4?

ZCC RB4 is a TCU installed inside a motor car to perform the functions as follows:

- Digital CRM (news & special offers, dealers, services)
- GPS tracking (trips, current speed/RPM, geo-location, geo-fencing, area control)
- Motor car health checking (customer report, OEM/dealership report)
- Push notification messages (road accidents, towing, speeding)

Please, see figure 1 for the general look of ZCC RB4 from two different views.

Figure 1

Specification

Please, see table for detailed specification of ZCC RB4.

Table 1. Technical parameters and characteristics

Technical Parameter or Characteristic	**Technical Parameter or Characteristic Value**
Microprocessor Control Unit (MCU)	
Core	Xtensa®dual-core 32-bit LX6 microprocessor up to 600 DMIPS
	Frequency up to 240 MHz
Flash Memory	448 Kbytes
Static RAM	16 Kbytes
FOTA update	GPRS connection
GSM Module	
LTE Type	Tri-Band FDD-LTE B2/B4/B12/B13
LTE CAT-M1(eMTC)	Uplink up to 375kbps, Downlink up to 300kbps
Communication	
WiFi	802.11 b/g/n (2.4 GHz), up to 150 Mbps
Bluetooth	BLE specifications
GNSS Module	
Types of GNSS supported	GPS/GLONASS
GNSS receiver	48 tracking / 2 fast acquisition channels
Accelerometer	Yes
Gyroscope	Yes
CAN data fusion	Yes
Cold start	30 sec
Hot start	<1 sec
CAN bus Connection	
Bus pins fault protection	> ± 36 nV
ISO 11898-2 compliance	Yes

GIFT/ICT	Yes
Data Transfer Rate	1 Mbit/sec
Common Mode Range	7 — 12 V
Thermal Shutdown support	Yes
K-Line (ISO9141) Connection	
K-Line connection with 1 KΩ master resistor	Yes
Data transfer rate	38 Kbit/sec
Data Storage	
Flash memory	16 Mb
iNEMO Inertial Module (3D Accelerometer and 3D Gyroscope)	
Leaner acceleration sensing range	±2/±4/±8/±16 g
Angular rate measurement range	±125/±245/±500/±1000/±2000 dps
High-performance mode	up to 1.6 kHz
Embedded temperature sensor	Yes
Power Supply	
Power supply voltage	5 — 18 V
Current (max.)	300 mA
Current (average)	60 mA
Current (deep sleep mode)	1 mA
Mechanical Characteristics	
Dimensions	55 mm × 49 mm × 22 mm
Weight	50 g

Highest output power

Frequency Band	Max power(dBm)
CAT M1 FDD2	21.85
CAT M1 FDD4	22.09
CAT M1 FDD12	22.25
CAT M1 FDD13	22.67
WiFi 2.4 G (802.11 n mode)	17
BT	5

Distribution Kit

The distribution Kit of ZCC RB4 comprises the parts and components as follows:

- ZCC RB4 main body
- Installation Kit.

Installation

To install ZCC RB4 onto your motor car, please, follow these instructions below.

- Contact your dealer center to inquire about the installation process OR
- Contact your dealer center to have the installation procedure performed by a qualified staff person.

WARNING! The installation of ZCC RB4 inside the motor car should be performed by a qualified technical stuff. Please, install ZCC RB4 onto your motor car only after reading this user manual.

WARNING! 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

WARNING! NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS 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.

Use

Please, download and install mobile app onto your mobile device (both Android and iOS-based supported).
Please, see the embedded Help for further assistance.

Contacts

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