



Vehicle Tracker – RDM-019

GSM + GPS + IRNSS + VOICE BOX + RS-232 + RF-ID + OBD/CAN + Accelerometer + Gyroscope


Key Features:

- IP 65 Compliant ABS Body.
- Quad band Class 12 GPRS Module.
- Multi-GNSS GPS & IRNSS with AGPS support.
- Embedded (internal) GPS & GPRS Antenna.
- RS-232 Port (this device can be used as remote data logger).
- 3 Axis Accelerometer. *
- 3 Axis Gyroscope. *
- Fuel sensor integration. *
- RF-ID reader (for driver authentication). *
- Mi-Fare card reader (for driver tracking in vehicle or student tracking in school bus). *
- Isolated Dedicated Ignition and AC Input.
- 4 Digital Inputs, 2 Digital Output and 2 Analog Input
- Vehicle Immobilization through SMS or Server.
- Alert: Ignition ON/OFF/Door Open/ Low Battery/ Box Tampering
- External Power Cut Alarm.
- SOS/Panic Alert.
- Vehicle Battery low alert.
- Offline tracking through SMS (in case of no internet connection available).
- Offline storage of data up to 1 month. **
- Data Communication over TCP/IP protocol.
- Over the Air configuration parameters update.
- Battery Back-up up to 4 Hrs. **

* - Ordering variant based features. (Optional)

** - Ordering variant based features. (which can be increase)

Technical Specifications

MCU Core ARM Cortex 32-bit CPU Freq 48MHz		Inputs / Outputs Digital Inputs 4 Nos. Voltage levels 0 to 1.6V Logic Low / OFF 1.7 to 40V Logic High / ON	
Memory for Offline Logs Type NAND Flash Size 16Mbit / 40000 Logs		Dedicated Digital Inputs Isolated Ignition Input (ACC) Isolated AC Input SOS Panic Input 4 Wire	
Cellular / GSM Module 2G, Quad Band Frequency 850/900/1800/1900 MHz GPRS Class Class 12/10 Antenna Internal (external optional) Sim Card Micro Sim 1.8/3.3V Protocol FTP/HTTP/POP3/SMTP/TCP/UDP Other Features Jamming Detection, SSL, MMS		Digital Outputs 2 Nos. Current Open Drain, 1A max.	
GNSS GPS + GLONASS GPS-1575.42 MHz, GLONASS – 1601.71 MHz No. Of Channels 22 Tracking, 66 Acquisition Sensitivity Acquisition – 148dBm Tracking – 166dBm Output Format NMEA 0183 Antenna Internal (external optional)		Analog Inputs 2 Nos. Voltage 0 to 30V Box Tamper Switch 1 Nos.	
RS-232 Baud rate 2400 to 115200 Configurable Hardware Handshake No		Status LEDs Power GSM GPS FAULT 	
Accelerometer Measurement Range +/-2g to +/- 16g Resolution 16Bit		Internal Battery Type Li-ion Rechargeable Capacity 650mAh @ 3.7V Protection Built in to battery pack	
Gyroscope Measurement Range +/-245 to +/- 2000 dps Resolution 16Bit		Electrical Input Voltage 5.5V to 48 V Protections Reverse Battery, Transient Protection Built-In PTC Fuse. Under Voltage lockout ESD Protection 4kV	
		Power Consumption Less than 1 watt (In High-Performance mode) Less than 0.25 watt (In Power-Saving mode)	
		Environmental Operating Temperature -40 to 85 Deg C	
		Mechanical Dimensions 120 X 75 X 25 mm. Box Material ABS Ingress Protection IP65 Weight 135 Grams (Approx.)	

TRACKER IMAGE

TOP SIDE

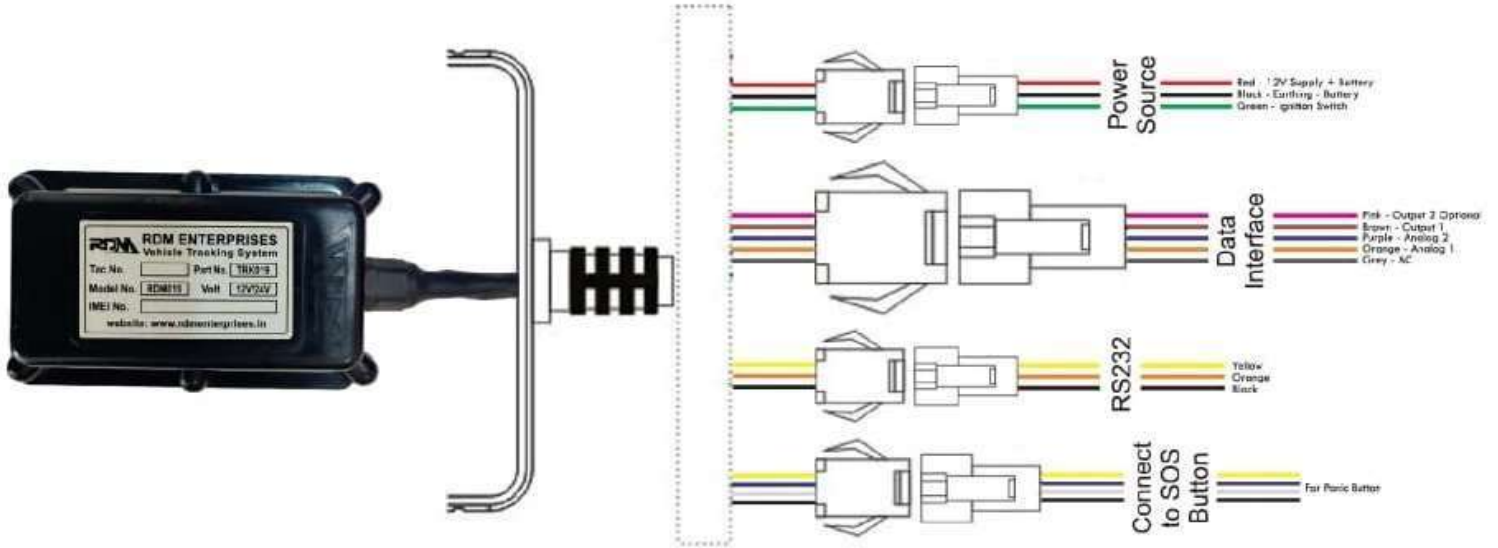


BOTTOM SIDE



PANIC BUTTON

Wiring Diagram



WIRE	COLOR	DESCRIPTION	
	RED	+12V	POWER
	BLACK	GROUND	
	GREEN	IGNITION INPUT	
	BLUE	AC / SOS	PANIC BUTTON
	WHITE	ANALOG INPUT1	
	YELLOW	DIGITAL OUTPUT1	
	BLACK	GROUND	
	YELLOW	TX	RS232
	ORANGE	RX	
	BLACK	GROUND	
	PINK	OUTPUT 2	DATA INTERFACE
	BROWN	OUTPUT 1	
	PURPLE	ANALOG 2	
	ORANGE	ANALOG 1	
	GREY	AC	