

KG-27 Specification

The KG-27 is a high-performance 4G vehicle tracker designed for advanced fleet and industrial applications. It features a 9-90 VDC input range, versatile I/O interfaces, and supports Lora sensor connectivity, with robust security including remote cut-off and intelligent status alerts.

This product supports:

1. 2G + 4G Cat.1
2. GNSS: GPS/ GALILEO/ BeiDou/ GLONASS
3. LoRa
4. Abundant External Interfaces (1-WIRE, RS485, RS232, ADC)
5. 9-90 VDC Wide Operating Voltage
6. 6,000 Blind Spot Data Storage Entries
7. Configurator and FOTA WEB



Communication Specifications

Technology	2G+4G Cat. 1
Data support	SMS (TXT/ PDU)
LTE FDD/ LTE-TDD	- GSM: 850/ 900/ 1800/ 1900 - STD Band: B1/ B2/ B3/ B5/ B7/ B8/ B20/ B28/ B66(B4)/ B38/ B39/ B34/ B40/ B41(Optional) - NA Band: B2/ B5/ B12/ B17/ B13/66(B4) / B38/ B39/ B34/ B40/ B41(Optional)
Lora	868MHz / 915MHz for Sensor Connectivity

GNSS Technical

Technology	GNSS: GPS/ GALILEO/ BeiDou / GLONASS
Tracking sensitivity	-165dB
Capture Sensitivity	-159dB
Position accuracy	<2.0m CEP
Hot start	<1s
Cold start	<24s

Features

Multi-IP	Dual-IP support
Working modes	- Normal - Online Sleep
LORA	Support
Alarm function	- Vibration Alert - Position Change Alert - Power-cut Alert - Low voltage Alert - Speeding Alert - Harsh Braking Alert - Harsh Acceleration Alert - Harsh Turning Alert - Collision Warning
Data storage	6000 blind spot storage entries (total for both IPs)
Configuration support	Configurator, FOTA WEB, SMS, Monitoring Platform

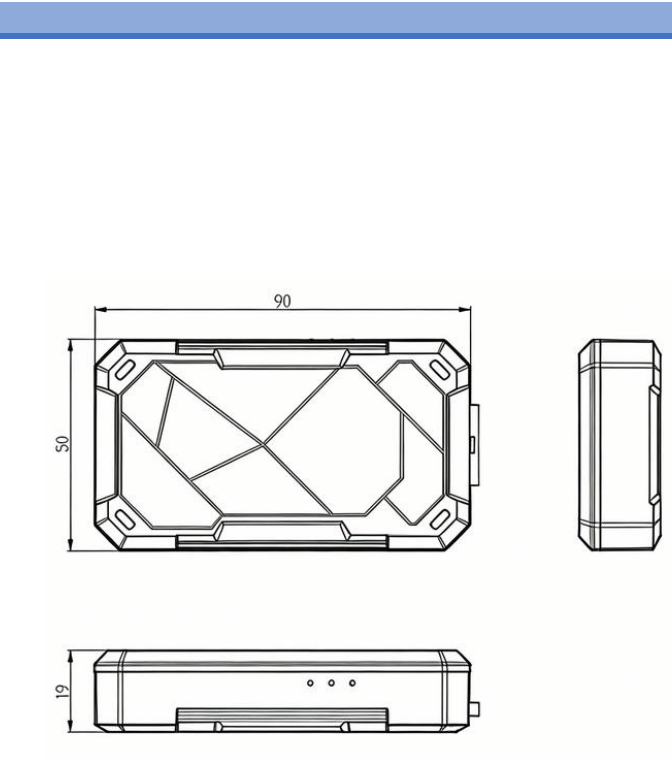
Power Consumption

Operating Power	DC 9-90V
Battery capacity	3.7V/ 400mAh Lithium battery
Power Consumption	@12V 10.72mA (Online Sleep Mode) @12V 43.5mA (Tracking Mode)

Physical & Interface Specifications

Connector	30pin female
Working Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Humidity	< 95%
LED	- Yellow: Location - Red: Communication
Interface	- Nano-SIM, TypeC - V+, GND, ACC, 1_Wire_Data, 1_Wire_5V, ADC_1, ADC2, CAR_IN_L1, CAR_IN_L2, CAR_IN_H1, CAR_IN_H2, Buzzer, Buzzer_5V, Fuel 1-, S485_A, RS485_B, RS232TX, RS232RX, 5V_OUT, MIC_P, MIC_N, SOS, SPK_P, SPK_N
Color	Black
Product Dimensions	L 93* W 50* H 19 mm
Weight	75g

Appearance



Regulatory Compliance

Certification	CE, FCC
Product Name	KG-27

Connector

A detailed diagram of a 30-pin connector. The pins are numbered 1 through 30. Pins 1-15 are on the top row, and pins 16-30 are on the bottom row. The diagram shows the physical layout of the pins and the internal wiring connections. The connector is labeled 'JVT 3B'.

Pin	Color	Definition	Pin	Color	Definition
1	Red	V +	16	Undefined	Undefined
2	Black1	GND	17	Orange	ACC
3	Blue	1_Wire_Data	18	Black2	GND
4	Pink	1_Wire_5V	19	Black3	GND
5	Brown & Black	ADC2	20	Brown	ADC_1
6	Black & White	CAR_IN_L1	21	Green & Black	CAR_IN_L2
7	Yellow	Fuel 1-	22	Red & Black	CAR_IN_H2
8	Pink	Buzzer_5V	23	Black4	GND
9	Green & White	Buzzer	24	Red & White	CAR_IN_H1
10	Orange & White	RS485_A	25	Orange & Black	RS485_B
11	White	RS232TX	26	Green	RS232RX
12	Pink	5V_OUT	27	Black5	GND
13	Gray & White	MIC_P	28	Purple & White	MIC_N
14	Pink & Black	SOS	29	Black6	GND
15	Blue & White	SPK_P	30	Gray & Black	SPK_N

