

BTT100 Series Product Specification (4 Wire GNSS Smart GPS Tracker)



1 Wiring Harness Definitions

(4PIN yellow)	3PIN (orange)	2PIN (black)	1PIN (red)
Relay	ACC/DIN1	GND	VCC

2 Product Introduction

Product Name	BTT100
Dimensions	79(L)*32.6(W)*11.8(T)mm
Weight	33g
Positioning Methods	GPS/BDS/GLONASS、LBS

3 Product Functions

Positioning Information Upload	Upload the positioning information such as longitude and latitude according to the interval setting.
On/Off State	Each uploaded data packet contains ignition status.
External Power Cut-off Alarm	When the GPS tracker detects that the external voltage is too low, the low voltage alarm will be reported.
Remote Oil/Circuit Cut-off	Remotely send commands to switch on/off oil/circuit (relay needed)

Low Power Alarm/Battery Low Alarm	When the GPS tracker detects that the external voltage is no less than 9V, the low power alarm will be reported.
Double IP Upload	Two channel IP addresses supported, upload position information
SIM Card Automatic Identification	Automatically identify SIM card and upload it information
Message Buffer	Positioning data will be stored in buffer when in network blind spots, and upload the data later when the tracker connects to network. Buffer Memory: 600
Mileage statistics	Calculates the total mileage
Jammer algorithm	Smart identification of surrounding interference environment
Power-saving Mode	Switch to standby mode when the vehicle is stationary.
OTA	Supported
Protocol Customized	Multiple-protocol Customized Supported

4 Power Supply

External Power Supply	Built-in Backup Battery
9-90 VDC	60mAh Li-ion Battery

5 Technology

Technology	GSM
Quad Band	850MHz/900MHz/1800MHz/1900MHz
GSM Antenna	Built-in GSM Antenna
GPRS Specification	Class12
Data Path	SMS, Platforms

6 Satellites Positioning

GNSS	GPS, Beidou
Positioning Accuracy	2m CEP (open sky)
GNSS Antenna	25mm*25mm*4mm ceramic antenna
Capture Sensitivity	-147dBm
Warm Start	-156dBm

Recapture Sensitivity	-160dBm
Tracking Sensitivity	-162dBm
Positioning Time (open sky)	Cold Start: 27s Warm Start: 1s

7 Operating Environment

Operating temperature	-25 °C to 75 °C
Storage Temperature	-40 °C to 85 °C
Protection Degree	IP54
Operating Humidity	5% to 95%
Battery Operating Temperature	-20 °C to 60 °C
Battery Storage Temperature	-20 °C to 45 °C 1-month storage -20 °C to 35 °C 6-month storage

8 Hardware Configuration

LED Indicators	GSM、GNSS Indicators
Micro USB	Firmware Upgrade and Tuning
SIM Card Slot	Micro-SIM/E-SIM
Gravity Sensor	Three Axis Acceleration Sensor
VCC	1
GND	1
DIN	1
DO	1

9 LED Indicators Definitions

Red (Power Supply)	Always on: Charging No light on: Not charging/sleeping
Orange (GSM)	Fast Flashing: GSM is initializing Slow Flashing: GSM signal is normal Always on: GPRS working No light on: No GSM Signal/SIM Card
Blue (GPS)	Fast Flashing: Searching for GPS signal Always on: Position captured No Flashing: GPS sleep / GPS not working