BTT110 Series Product Specification (4 Wire GNSS Smart GPS Tracker)

1 Wiring Harness Definitions

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

2 Product Introduction

Product Name	BTT110
Dimensions	90.6(L)*57(W)*20(T)mm
Weight	68g
Positioning Methods	GPS, BDS, 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)

Crash Alarm	Upload the crash alarm when a car crash occurs (built-in acceleration sensor).
Driver Behavior Alarm	Harsh acceleration, harsh braking, harsh cornering status upload (built-in acceleration sensor)
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: 1000
Power-saving Mode	Switch to standby mode when the vehicle is stationary.
OTA	Supported
Protocol Customized	Multiple communication protocols customization supported

4 Power Supply

External Power Supply	Built-in Backup Battery
9-90 VDC	140mAh Li-ion Battery

5 Technology

Type	BTT110
Technology	LTE/ WCDMA/GSM
Quad Band	LTE-FDD:B1/B3/B5/B7/B8/B20 GSM:900/1800MHz
Antenna	Built-in Antenna
GPRS Specifications	Class12
Data Path	SMS, Platforms

6 Satellites Positioning

GNSS	GPS，Beidou
Positioning Accuracy	2m CEP 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 $^{\circ}$C to 75 $^{\circ}$C
Storage Temperature	-40 $^{\circ}$C to 85 $^{\circ}$C
Protection Degree	IP67
Operating Humidity	5% to 95%
Battery Operating Temperature	-20 $^{\circ}$C to 60 $^{\circ}$C
Battery Storage Temperature	-20 $^{\circ}$C to 45 $^{\circ}$C 1-month storage -20 $^{\circ}$C to 35 $^{\circ}$C 6-month storage

8 Hardware Configuration

LED Indicators	LTE, 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

Yellow（LTE）	Fast Flashing: LTE is initializing Always on: LTE signal is normal No Light on: No LTE signal/SIM card
Blue（GPS）	Fast Flashing: Searching for GPS signal Always on: Position captured No Light on: GPS sleep/not working