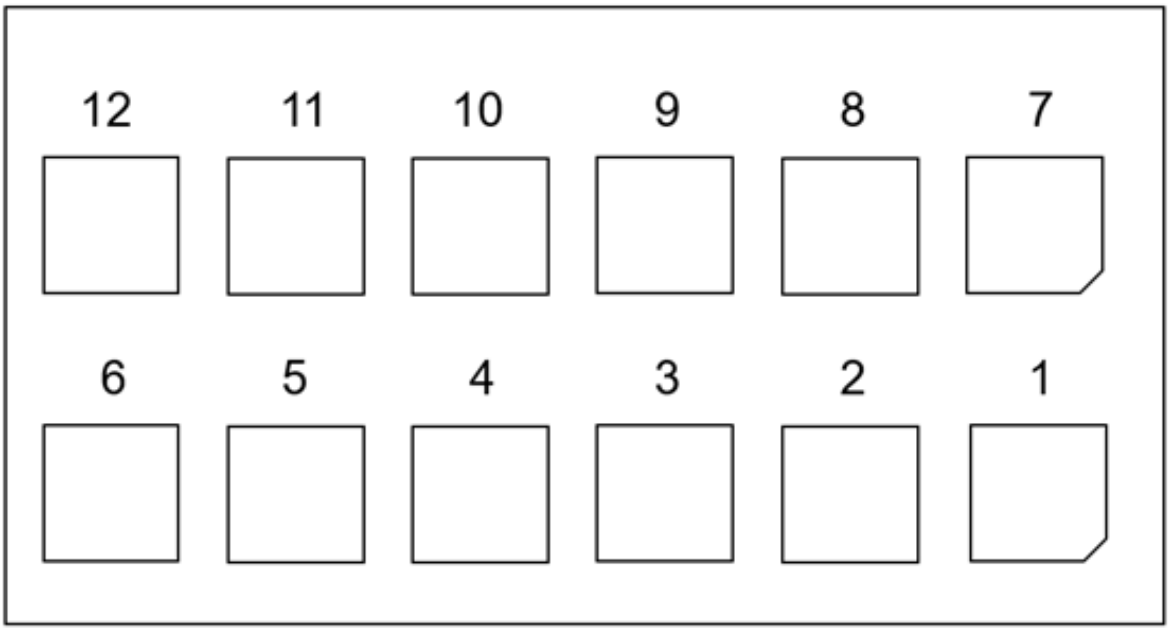
BTT300 Series Product Specification (12-Wire GNSS Smart GPS Tracker)

1 Wiring Harness Definitions



12PIN	11PIN	10PIN	9PIN	8PIN	7PIN
MIC-	MIC+	AIN1	DIN3	485B	485A
6PIN	5PIN	4PIN	3PIN	2PIN	1PIN
SPK-	SPK+	DO1 (Relay)	DIN1 (ACC)	GND	VCC

2 Product Introduction

Product Name	BTT300
Dimensions	81(L)*43(W)*15.6(T)mm
Weight	49.5g
Positioning Methods	GPS, LBS
Product Certification	CE

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 power supply is disconnected, the device will report the power cut-off alarm (turn on the battery backup).
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 power is too low, the low power alarm will be reported.
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)
Tow Alarm	When the ignition is off, tow alarm will be uploaded if the vehicle front is raised and displacement occurs.
Geo Fence	Send the geofence data through the platform, generate geofence alarm when the vehicle enters or exits the area. 10 hardware geofences supported
Vibration Alarm	When the ignition is off, if vibration happens then upload alarm information.

Over-speed Alarm	Upload alarm information when the speed exceeds the set value.
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
RS485	485 interface (sensors with 485 interface) supported
DIN	Digital signals (such as SOS) or digital type equipments and peripheral devices supported
AIN	Analog or analog type equipments and peripheral devices supported
MIC	Remote monitoring supported
SPK	Voice broadcast supported
Extended Storage	Supported (Optional)

4 Power Supply

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

5 Technology

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

6 Satellites Positioning

GNSS	GPS，Beidou, Glonass, QZSS
Positioning Accuracy	<2m CEP
GNSS Antenna	25mm*25mm*4mm ceramic antenna
Capture Sensitivity	-148dBm
Warm Start	-156dBm

Recapture Sensitivity	-159dBm
Tracking Sensitivity	-167dBm
Positioning Time (open sky)	Cold Start: 27s Warm Start: 1s

7 Operating Environment

Operating Temperature	-40 °C to 85 °C
Storage Temperature	-40 °C to 85 °C
Protection Degree	IP41
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

9 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	2
DO	1
AIN	1
485A	1
485B	1
MIC+	1
MIC-	1
SPK+	1
SPK-	1

10 LED Indicators Definitions

Orange（GSM）	Fast Flashing: GSM is initializing Slow Flashing: GSM signal is normal Always on: GPRS working No Flashing: No GSM Signal/SIM Card
Blue（GPS）	Fast Flashing: Searching for GPS signal Always on: Position captured No Flashing: GPS sleep / GPS not working