

Protocol

The device ready , try to connect server will send the data to register

Message Body Length that's means: message body data length

0100 terminal register

7E 01 00 00 27 01 38 33 50 42 79 00 13 00 2C 01 2F 37 30 31 31 31 42 53 4A 2D 41 36 2D 42 44 00 00 00 00 00 00 00 00 00 00 00 00 33 35 30 34 32 37 39 01 4E 58 63 7E

7E header

01 00 main signaling

00 27 Message Body Length

01 38 33 50 42 79 Tracker SN number (the same with you set on the platform. 11bytes)

00 13 Serial Code(number)

00 2C provincial ID

01 2F city ID

37 30 31 31 31 Manufacturer ID

42 53 4A 2D 41 36 2D 42 44 00 00 00 00 00 00 00 00 00 00 00 00 terminal type

33 35 30 34 32 37 39 terminal ID(The factory default)

01 plate color

4E 58 plate

63 checksum

7E Ending

0x8100 : Platform Registration Reply :

7E8100000D0131502848940000000010001020304050607080910087E

7E header

8100 main signaling

000D Message Body Length

013150284894 Tracker SN number (the same with u set on the platform.11bytes)

0000 Serial Code(number)

0001 Response serial number

00 result (0=success 1=vehicle already registered

01020304050607080910 Authentication number

08 checksum

7E Ending

0102 terminal authentication
7E0102000A0138335042790014010203040506070809106D7E

7E header
0102 main signaling
000A Message Body Length
013833504279 Tracker SN number (the same with u set on the platform.11bytes)
0014 Serial Code(number)
01020304050607080910 Authentication number
6D checksum
7E Ending

0x8001 : Platform Common Answer
7E80010005013150284894 00010002010200107E

7E header
8001 main signaling
0005 Message Body Length
013150284894 Tracker SN number (the same with u set on the platform.11bytes)
0001 Serial Code(number)
0002 Response serial number
0102 ResponseID
00 result
10 checksum
7E Ending

0200 location data
7E 02 00 00 2A 01 38 33 50 17 44 00 19 00 00 00 00 00 00 00 C2 01 59 7F A8 06 CC 01 58 00 80 00 00 00 08 15 08 18 07 21
21 01 04 00 00 02 F5 02 02 00 00 03 02 00 00 9F 7E

7E Header
02 00 main signaling
00 2A Message Body Length
01 38 33 50 17 44 Tracker SN number (the same with u set on the platform.11bytes)
00 19 Serial Code(number)
00 00 00 00 Alarm Bit
00 00 00 C2 Status Bit

01 59 7F A8 Latitude
01 59 7F A8 hex to decimal 22642600
Decimal 22642600 ÷ 1000000 = 22.6426, if want to converted it to format of degree and minute, please : 22degree,
0.6426*60=38.556 minute----- so the Latitude is 2238.5560N

06 CC 01 58 Longitude

06 CC 01 58 hex to decimal 114032984

Decimal 114032984 ÷ 1000000 = 114.032984 If want to converted it to format of degree and minute, please: 114 degree, 0.032984*60=1.97904 minute----- so the longitude is 11401.9790N

00 80 Altitude 128m
00 AA Speed 170/10=17km/h Default GPS speed, for reference
00 08 direction 8
15 08 18 07 21 21 time 2015-08-18 07:21:21

Extension bit data as bellow: 01 04 00 00 02 F5 02 02 00 00 03 02 00 00 9F

01[Mileage] 04[4 bytes mileage] 00 00 02 F5 means 757/10=75.7km
02[fule lever] 02[2bytes fuel] 00 00 fuel level no data
03[sensor speed] 02[2bytes sensor speed] 00 00 sensor speed no data (gps or pulse speed, at the same time if both effective, take pulse rate, or, take gps speed)
9F XOR checksum
7E Ending

0x8001 : Platform Common Answer

7E80010005013150284894 00010002020000107E

7E header
8001 main signaling
0005 Message Body Length
013150284894 Tracker SN number (the same with u set on the platform.11bytes)
0001 Serial Code(number)
0002 Response serial number
0200 ResponseID
00 result
10 checksum
7E Ending

0002 heartbeat data

7E000200000138335042790016757E

7E header
0002 main signaling
0000 Message Body Length
013833504279 Tracker SN number (the same with you set on the platform.11bytes)
0016 Serial Code(number)
75 checksum
7E Ending

0x8001 : Platform Common Answer

7E80010005013150284894 00010002000200107E

0704 bilnd area data format

7E0704014301356777777707F5000801002600000000000000030159741206CBFD50017200000001160527090624
01040000001D030200000026000000000000000030159746606CBFD50016B0000000116052709065301040000001
D030200000260000000000000000003015975E406CBFE58013F0000000116052709072701040000001D0302000002
6000000000000000003015976DE06CBFF10012E0000000116052709075601040000001D0302000000260000000000
00003015976BC06CBFED0012D0000000116052709083001040000001D030200000260000000000000003015976
FE06CBFEC001080000000116052709090001040000001D03020000026000000000000000003015976FE06CBFE7800
FC0000000116052709093301040000001D03020000026000000000000000003015977A606CBFF3001080000000116
052709100201040000001D030200001F7E

7E header

0704 main signaling

0143 command loop code---message data length

013567777777 Trakcer SN number

07F5 Serial Code(number)

0008 The number of data items

01 data type. fixed. no need deal

0026 one location message data length

00000000000000000030159741206CBFD5001720000000116052709062401040000001D03020000

0026 one location message data length

00000000000000000030159746606CBFD50016B0000000116052709065301040000001D03020000

0026 one location message data length

0000000000000000003015975E406CBFE58013F0000000116052709072701040000001D03020000

0026 one location message data length

0000000000000000003015976DE06CBFF10012E0000000116052709075601040000001D03020000

0026 one location message data length

0000000000000000003015976BC06CBFED0012D0000000116052709083001040000001D03020000

0026 one location message data length

0000000000000000003015976FE06CBFEC001080000000116052709090001040000001D03020000

0026 one location message data length

0000000000000000003015976FE06CBFE7800FC0000000116052709093301040000001D03020000

0026 one location message data length

0000000000000000003015977A606CBFF3001080000000116052709100201040000001D03020000

1F XOR checksum

7E ending

Response : 7E8001000501356777777707F507F5070400A37E

response:

7E header

8001 main signaling

0005 command loop code---message data length

013567777777 Tracker SN number

07F5 serical code(number)

07F5 reponse serial number

0704 response ID

00 result

A3 XOR checksum

7E ending

0107 Extended protocol

7E0107001E0380000498370049143839353230323030313831323038343230313066035831310456312E301C7E

7E header

0107 main signaling

001E message body length

038000049837 Tracker SN number (the same with IMEI 11bytes)

0049 serial code(number)

14 ICCID length 20

3839353230323030313831323038343230313066 ICCID

03 mode length

583131 model X11

04 version length

56312E30 version V1.0

1C7E checksum