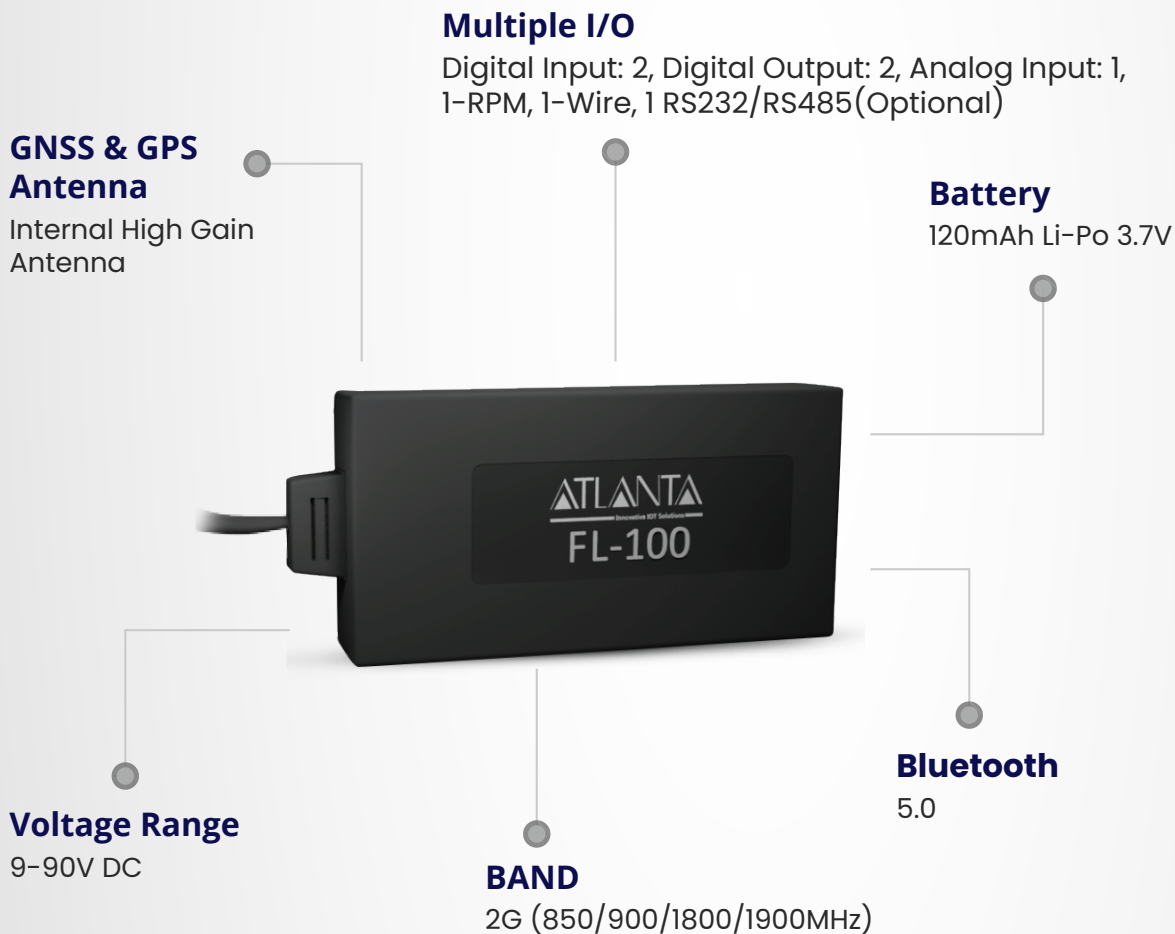



FL-100

PROTOCOL



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SL#	Version	Prepared by	Date
1	VTS_GPRS_FL_V2.1	Vijith V.Nair	05/05/2023

FL-100 is a smart vehicle tracker with Bluetooth connectivity. Multiple I/O's caters to industry like Logistics, Insurance Telematics, Refrigerated Trucks, Rental Cars & many more. There are three types of packets that FL-100 sends to cloud server as below.

Protocol

LIVE/MEMORY, SIGNATURE, IMEI, TIME (GMT), DATE, VALID/INVALID, LATITUDE, NORTH/SOUTH, LONGITUDE, EAST/WEST, SPEED-IN-KNOT, ANGLEOF-MOTION, ODOMETER, INTERNAL-BATTERY-VOLTAGE, SIGNAL-STRENGTH, MOBILE-COUNTRY-CODE, MOBILE-NETWORK-CODE, LOCATION-AREA-CODE, CELL-ID, IGNITION(0/1) SOS(0/1) ARM/DISARM STATE(0/1) OUT2(0/1) HARSHBRAKING/ACCELERATION/NON(1/2/0) BATTERY STATUS(0/1), RPM DATA, 1-WIRE DATA, ANALOG-1, SERIAL DATA END-OF-DATA

Example

- Live Data

L,ATLLOC,862631034245448,073950,090817,A,2838.0105,N,07713.3491, E,0.0,143,553.14,4.0,21,404,4,88,a d7b,100101 1200.0,36.5,48.5, ABCDEF,\$

- History Data

H,ATLLOC,862631034245448,073950,090817,A,2838.0105,N,07713.3491, E,0.0,143,553.14,4.0,21,404,4,88, ad7b, 1001011200.0,36.5,48.5,ABCDEF,\$

Signature	Description
L/H	Live/Memory
ATLLOC	Signature
862631034226166	IMEI
063736	Time
080717	Date
A/V	valid/invalid
2837.6926	Latitude
N/S	North/South
07714.0415	Longitude
E/W	East/West
0	Speed knot
17	Angle of motion
351.16	Odometer
4.2	Battery
16	Signal Strength
404	Mobile country code
4	Mobile Network code
88	Location area code
4ca5	Cell id
100101	#Ignition(0/1) SOS (0/1) arm/disarm OUT-2(0/1) Harsh Braking / Acceleration/Non(1/2/0/0) Battery status(0/1)
1200.0	RPM Data
36.5	1-Wire sensor data
ABCDEF	Serial Data
48.5	Analog Input data in Volts
\$	Signature

Notes:-

1. FL-100 Uses TCP layer acknowledgment, No ACK required from server.