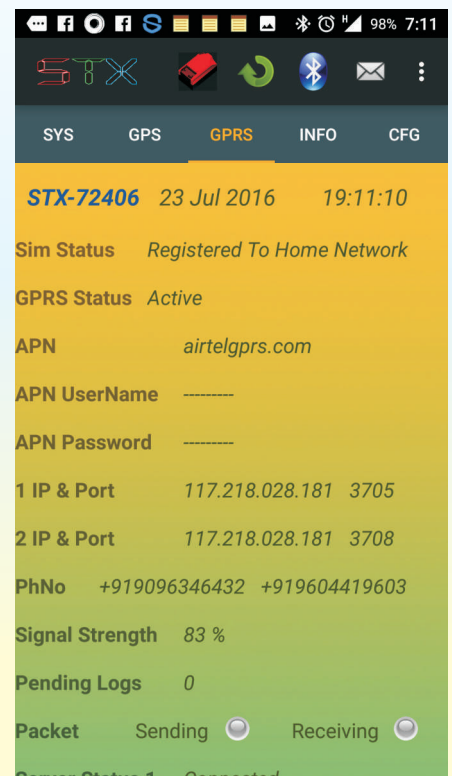
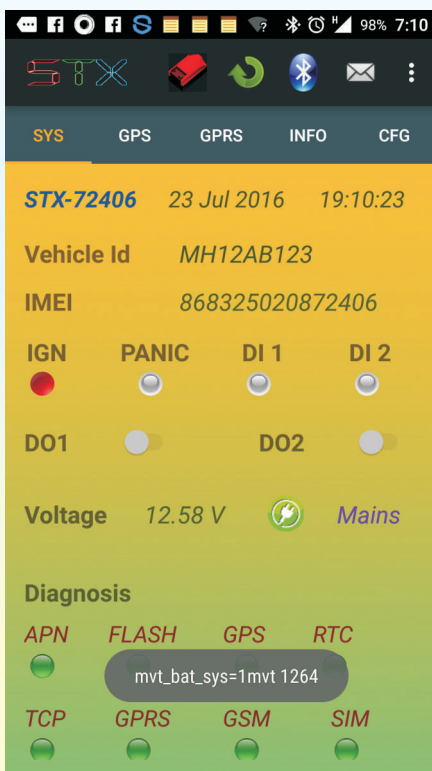


# Vehicle Tracker

Tracking + Bluetooth+ RS-232+ Accelerometer

## Key Features:

- Embedded GPS and GPRS Antenna.
- IP 65 Compliant Rugged ABS Body.
- Quad band Class 12 GPRS Modem.
- Multi-GNSS GPS and GLONASS with AGPS support.
- Bluetooth 4.0 to communicate with Andriod Phones / Tabs / PC.
- RS-232 Port<sup>®</sup>.
- 3 Axis Accelerometer<sup>®</sup>.
- 2 Digital Inputs, 2 Digital Outputs.
- Ignition Input.
- Panic Button Interface.
- 15000 logs offline storage.
- **GPS based distance measurement.**
- **Geo-Fencing polygonal, 3 nos. of Geo-Zone circular inside the device.**
- **Andriod based application for device configuration and monitoring over SMS and Bluetooth.**
- **Packet data over TCP/IP protocol.**
- **Over the Air Firmware update<sup>®</sup>.**
- **Battery Back-up up to 6 Hrs.\*\***



**Android Application Monitors data and sends report via Mail.**

@ - Under development. #-Ordering variant based feature. \*\* - @ GPRS data rate above 2 minutes.

# Technical Specifications

## MCU

Core ARM-7 EJ-S  
Memory 360KB Flash, 600KB RAM

## Bluetooth

Version 3.0  
Profiles SPP, HFP

## Memory for Offline Logs

Type Data Flash  
Size 2Mbyte / 15000 Logs

## RS-232#

Baudrate 2400 to 115200 Configurable  
Hardware Handshake No

## Accelerometer#

Measurement Range +/- 16g  
Resolution 12Bit

## Internal Battery

Type Li-ion Rechargeable  
Capacity 1100mAH @ 3.7V  
Protection Circuit Yes. Internal to Battery Pack.  
Battery temperature monitoring using NTC Yes.

## Cellular

Communication 2G, GPRS  
Frequency Quadband  
850/900/1800/1900 MHZ  
GPRS Class Class 12  
Antenna Internal (External optional)  
SIM card 1.8/3.3V, Micro SIM  
Data Support TCP, HTTP, SMS

## Electrical

Input Voltage 7.2 to 40 VDC.  
Power Consumption 3 Watts Maximum  
Protections Reverse Battery  
Transient Protection  
Under voltage lockout  
EMI/EMC Filter

## GNSS

GPS+GLONASS GPS- 1575.42MHz,  
GLONASS - 1601.71 MHZ.  
Output format NMEA 0183  
No. of Channels 33 Tracking, 99 Acquisition  
Sensitivity Acquisition -148dBm  
Tracking -165dBm  
Antenna Internal (External optional)

## Certifications

*In Process...*

## Environmental

Operating Temperature -40 to 85 Deg C  
Charging of Battery shall be terminated above +55 DegC

## Inputs / Outputs

**Digital Inputs** 2 Nos.  
Voltage levels 0 to 7.2V Logic Low / OFF  
7.2 to 37V Logic High / ON

### Dedicated Digital Inputs

Ignition Input (ACC)  
Panic Input 2 Wire

## Mechanical

Dimensions 91 X 85 X 35 mm.  
Material ABS (UV stabilised + HR)  
Ingress Protection IP65  
Weight 250 Grams (Approximate).

### Digital Outputs

1 Nos.  
Current Open Drain, 500mA max.

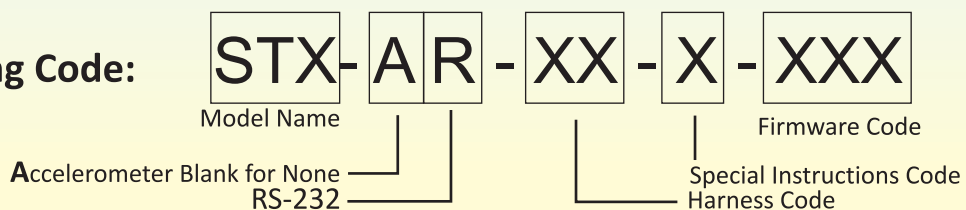
### +5V Output#

300mA Fused,  
With MOSFET based ON/OFF

### Status LEDs

Power, Cellular, GPS, Bluetooth

## Ordering Code:



# NATIONAL METER MFG. CO.

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