

GPS Tracking Units

4G LTE and ISM Based Tracking Units

RTS designed and manufactured GPS tracking units provide cost effective solutions, whether your tracking needs are across the country and/or restricted to a fixed location. RTS offers several versions of GPS tracking units which are compatible with our Traffic Management Application, vMonitor™. The data can also be exported to 3rd party display systems.

Each Tracking Unit can communicate via 4G LTE or 868/900MHz radio.

Tracking Unit Types

Situational Awareness on the Edge

Model: VTU-TABLET

Use Cases:

- Security Vehicles
- Multi-Vehicle Testing
- Vehicle Test Mode Alerting



Vehicle Tracker

Model: BASIC-HW

Use Cases

- Security Vehicles
- Service Vehicles
- Snow Plows
- Maintenance Vehicles
- Access Violation Alerting



Battery Tracker

Model: PACER

Use Cases:

- Visitors
- Test Vehicles
- Access Violation Alerting



Personnel Tracker

Model: PTU

Use Cases:

- Pedestrians
- Visitors
- Security Guards



DESIGN

SAFETY

ALERTING

HOSTING

CUSTOM SERVICES

Specifications

4G LTE Specifications

BANDS

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/
B19/B20/B25/B26/B28
LTE TDD: B38/B39/B40/B41

Data

LTE FDD: Max 150Mbps (DL)/Max 50Mbps (UL)
LTE TDD: Max 130Mbps (DL)/Max 30Mbps (UL)

General Radio Specifications

USA 900 MHZ ISM Band

Frequency 902-928 MHz
Output Power 1W
Transmission Type Spread Spectrum

AU 900 MHz SRD Band

Frequency 915-928 MHz
Output Power (EIRP) 30dBm

EU 868 MHz SRD Band

Frequency 869-869.65 MHz
Output Power 500mW
Conforms with EU R&TTE 1999/5/EC directive

General GNSS Specifications

GPS Receiver 72 channels u-blox M8 engine
GNSS GPS L1C/A, GLONASS L1OF, BeiDou B1I
Update Rate 1 sec, 100ms, 200ms, 500ms (default)

BASIC-HW

Input Voltage 9-35V DC
Current 100mA (nominal), 500mA (transmission)
Dimensions 160mm x 100mm x 45mm

PACER

Recharge Power 2A @ 5V DC
Max Input Voltage 20V DC
Dimensions 165mm x 80mm x 28mm

PTU

Recharge Power 1A @ 5V DC
Dimensions 85mm x 45mm x 25mm

VTU-TABLET-7

Resolution: 800x480 pixels
Brightness: 900 cd/m²
Input Voltage 9-35V DC
Current 12VDC 400mA (nominal),
Dimensions 160mm x 100mm x 450mm
Weight.....1.2lb

VTU-TABLET -10

Resolution: 1280x800 pixels
Brightness: 850 cd/m²
Input Voltage 9-35V DC
Current 12VDC 1A (nominal)
Dimensions 275mm x 185mm x 45mm
Weight.....1.5lb

Technology-Integration Partners



Common Tracking Unit Features

- 1m CEP
- 2Hz Update Rate with Low Latency
- 3 Axis Accelerometer/Gyro
- Status LED
- Warning LEDs
- Warning Buzzer

Options

- RTK
- Recharge Rack

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