



Proving Ground Traffic Management

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 your proving ground. RTS offers several versions of GPS tracking units which are compatible with our Traffic Management Application, vMonitor™.

These tracking units communicate over 4G LTE cellular networks or ISM (900/868MHz)* locally installed sites. Proving grounds can mix and match tracking units to provide the most cost effective solution which meets their needs.

Equipped with 4G LTE or ISM modems (900/868MHz), these tracking units are seamlessly integrated into vMonitor™ Traffic Management Software Application.

* Other modems are available

Vehicle Tracking Units

VTU-TABLET

- Hardwired for 12v/24v vehicle
- Internal GNSS Antenna
- Internal 4G LTE Antennae
- Rugged mechanical design
- Easily moved from vehicle to vehicle
- windshield suction mount
- Battery backup
- Touchscreen interface
- Text Messaging with Acknowledgement
- Display options: 7" or 10"
- Displays:
 - Gate Status
 - Alerts
 - Warnings



VTU-BASIC-HW

- Hardwired for 12v/24v vehicle
- External GNSS Antenna
- External 4G LTE Antennae



VTU-PACER

- Li-ion Battery (20 hr runtime)
- Internal GPS Antenna
- Internal 4G LTE Antennae
- 3 Axis Accel/Gyro
- Qi Wireless Charging
- Easily moved from vehicle to vehicle
- windshield suction mount



DESIGN

SAFETY

ALERTING

HOSTING

CUSTOM SERVICES



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Proving Ground Traffic Management

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)

VTU-BASIC-HW

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

VTU-PACER

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

VTU-TABLET-7

Resolution: 800x480 pixels
Brightness: 900 cd/m²
Input Voltage 9-35V DC
Current 12VDC 400mA (nominal),
Dimensions 160mm x 100mm x 45\0mm
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

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 for PACER (5x)

Technology-Integration Partner



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