

VHF based GPS Fleet Locator Budgetary quotation & hardware list

The Fleet locator consist have a **Control Station** and number of **Mobile Units**. *This quotation is for one control station and one mobile unit.*

A. Details of the Hardware in the **Mobile Unit** - 1 no.

Sr. No	Hardware Name	Qty	Price (USD)	Usage
1	RF Remote unit (With GPS & Radio Modem)	1	\$ 500	For getting location data using GPS and transmitting to base station.
2	VHF Radio Set	1	\$ 500	For communication
3	12 V battery (capacity 24 hrs)	1	\$ 200	For Standalone operation, where NO DC power is available. With charging facility & 12 V Ext power jack
Total			\$ 1200	



B. Details of the Hardware in the **Control Station** – 1 no.

Sr. No	Hardware Name	Qty	Price (USD)	Usage
1	RF base unit (Radio Modem without GPS)	1	\$ 400	For communication between Control Station (PC) and RF remote unit.
2	Radio Set	1	\$ 500	For communication
3	Tracking Software	1	\$ 2000	Full featured GPS/GIS tracking software
4	P-IV PC (Compaq)	1	\$ 1100	
Total			\$ 4000	



Installation charges: Lump Sump (depends on site location); qualified system integrators can do themselves.

Hardware List

Description	
Control station	
1. VHF Radio Unit	
2. Radio modem	
3. PC	
4. Mapping & Tracking software	
Mobile Unit	
1. VHF Radio unit	
2. Radio Modem	
3. GPS	
4. GPS Antenna (external)	
5. Power Cable for Radio Unit	
6. RF Unit Radio Data Connector	
7. RF Antenna	
8. PTT	
9. Modem Cable	

RF Solution hardware specification

VHF Radio Unit		
	VHF	UHF
Frequency	136-162 MHZ	403-433 Mhz
	146-174 MHZ	438-470 Mhz
		465-495 Mhz
		490-520 Mhz
Channels	8,16	
Power Output	10-25 W	10-25 W
	45 W	25-40 W
		25-35 W
Channel Spacing	20/25/30 Khz	20/25 Khz
	12.5 Khz	12.5 Khz
Audio output	3 W @ less than 5% distortion	

Radio Modem	
Modulation	Fast frequency shift keying
Data rate	Modulation 2400 Bauds
	User Interface 2400 Bauds to 19.2 Kbps
Com port setting	No parity Databits 8 Stopbits 1
Flow Control	Hardware flow control
Interface	RS232
Two way communication	

GPS Receiver (on board)

12 Channel GPS receiver

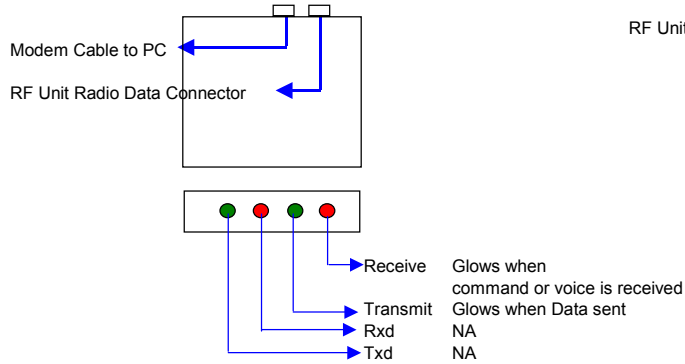
Interface

RS232

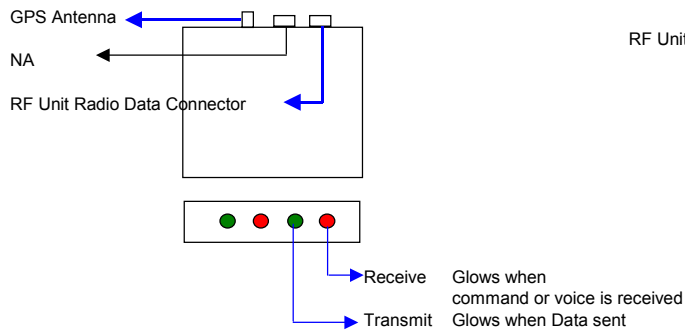
Two way communication

Circuit Daigram for RF Solution

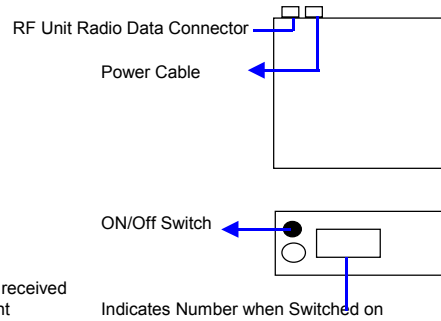
RF Radio Base Unit 1



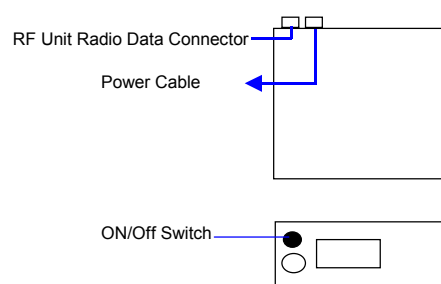
RF Radio Remote Unit 1



Radio Unit 1



Radio Unit 2



Connection Cables

Modem Cable
To PC



To RF Radio Base Unit 1

Power Cable
To Radio Unit



To Power Supply

RF Unit Radio Data Connector

To Radio Unit



To RF Radio Remote Unit 1

GPS Antenna

To SKY



To RF Radio Remote Unit 1