Model: UDT-TV-02 / UDT-MT-02

SMS AND GPRS MODE PROTOCOL

1.SMS Mode:

Data format:

Lat: +22.50500-----Latitude Direction (+/-) Latitude Value (Accuracy for 5 after the decimal point)

Long: +114.01000------Longitude Direction (+/-) Longitude Value (Accuracy for 5 after the decimal point)

Speed: 0.00KM/H------Speed KM/H (Accuracy for 2 after the decimal point)

Direction: 315.00 -----(Accuracy for 2 after the decimal point)

Date: 2008-04-25 ------Date YYYY-MM-DD

Time: 16:39:45-----Time HH: MM: SS (GMT)

BS: 25ee0dff ------Base Station information

Fix: A------Location state (A/V)......A=data valid, V=data not valid

ID: 353686009002030---IMEI Number

STATE: SMS------Message state(explain by follow)

Note: If in the cold start and GPS is not fix, it will return the void information:

ERROR GPS GPRMC FRAME DATA

BS: 27971054".

ID: 353686009002030

STATE: SMS

STATE:

SMS-----send 6660000 to tracker for getting position, it will reply sms with sms state

TIMER--- Send the position information in fixed time

CALL----- when somebody call the gps tracker, and no answer, it will reply sms with call state

SOS-----when press SOS button, it will send sms with sos state to the presorted number

ANSWER---- when somebody call the gps tracker, and answer, it will reply sms with call state

OS-----when over **GEOFENCE**

RS-----when come back to GEOFENCE

LP----- Low voltage warning

AUTO----- Engine is Open, ACC is ON

AUTOLOW----- Engine is Close, ACC is Off

DEF------ Cut the power wire, it will upload with "DEF" state

OVER SPEED---- When the tracker speed over the set,it will upload with "OVER SPEED" state

AUTO START----- When the engine is Open, ACC is ON, it will upload with "ATUO START" state

AUTO STOP----- When the engine is Cloes, ACC is OFF, it will upload with "ATUO STOP" state.

ACC OS----- Move alarm ,When the car engine is Cloes the car is moving.

ACC RS----- Move alarm ,When the car engine is Cloes the car is move back

Notice: ALL SMS are sent to cell phone number

GPRS Mode:

TCP/IP PROTOCOL

#IMEI # user name #service password #State# data quantity

#the base station's information \$ GPRMC

#the base station's information \$ GPRMC ##

eg:

#123456789000001#V3338#0000#SMS#3

#25ee0dff\$GPRMC,083945.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,,A*6E

#25ee0dff\$GPRMC,083950.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E

#25ee0dff\$GPRMC,083955.180,A,2233.4249,N,11406.0046,E,0.00,315.00,251207,,,A*6E ##

RMC Data Format

\$GPRMC,161229.487,A,3723.2475,N,12158.3416,W,0.13,309.62,120598, ,*10

Name	Example	Units	Description
Message ID	\$GPRMC		RMC protocol header
UTC Time	161229.487		hhmmss.sss
Status1.	A		A=data valid or V=data not valid
Latitude	3723.2475		ddmm.mmmm
N/S Indicator	N		N=north or S=south
Longitude	12158.3416		dddmm.mmmm
E/W Indicator	W		E=east or W=west
Speed Over Ground	0.13	knots	1knots=1.852km/h
Course Over Ground	309.62	degrees	True
Date	120598		ddmmyy
Magnetic Variation		degrees	E=east or W=west
Mode	A		A=Autonomous, D=DGPS, E=DR

Checksum	*10	
<cr> <lf></lf></cr>		End of message termination
ACC	AUTO	ACC ON, Engine Open
ACC	AUTOLO	ACC OFF, Engine Close
	\mathbf{W}	

STATE:

STATE.			
SMS Upload the location instruction at once, send #806#user password## to upload data to server			
AUTO Send the position information in fixed time to server, and the ACC is ON, engineer is Open			
CALL when somebody call the gps tracker, and no answer, it will upload with call state			
SOSwhen press SOS button, it will send data with sos to server			
ANSWER when somebody call the tracker, and answer, it will upload data to server with call state			
OSwhen over GEOFENCE			
RSwhen come back to GEOFENCE			
AUTO Engine is Open, ACC is ON			
AUTOLOW Engine is Close, ACC is Off			
STORAGEUpload the location data in the tracker			
DEFCut the power wire, it will upload with "DEF" state			
LPWhen the power low, it will upload with "LP" state			
OVER SPEEDWhen the tracker speed over the set,it will upload with "OVER SPEED" state			
ATUO STARTWher the engine is Open, ACC is ON, it will upload with "ATUO START"			
state			
AUTO STOP When the engine is Cloes, ACC is OFF, it will upload with "ATUO STOP"			
state.			
ACC OSMove alarm ,When the car engine is Cloes the car is moving.			
ACC RS Move alarm ,When the car engine is Cloes the car is move back.			