Feature	Implementation
SIM interface	• Supported SIM card: 3V
	• External SIM card reader has to be connected via interface connector
Audio interfaces	Two analog audio interfaces, one digital audio interface(DAI)
Audio features	Speech code modes: • Half Rate (ETS 06.20) • Full Rate (ETS 06.10) • Enhanced Full Rate (ETS 06.50 / 06.60 / 06.80) • Adaptive Multi Rate (AMR)
	Handsfree operation • Echo cancellation • Noise reduction
Two serial interfaces: ASC0,ASC1	• 2.65V level, bi-directional bus for AT commands and data
	• ASC0 - full- featured 8-wire serial interface. Supports RTS0/CTS0 hardware handshake and software XON/XOFF flow control. Multiplex ability according to GSM 07.10 Multiplexer Protocol.
	• ASC1 - 4-wire serial interface. Supports RTS1/CTS1 hardware handshake and software XON/XOFF flow control.
	• Baud rate: 300bps... 230kbps on ASC0 and ASC1
	• Autobauding (on ASC0 only) detects 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400 bps
SIM Application Toolkit	SIM Application Toolkit Supports SAT class3, GSM 11.14 Release 98, support of letter class "c"
Ringing tones	Offers a choice of 7 different ringing tones / melodies, easily selectable with AT command
Real time clock	Implemented
Timer function	Programmable via AT command
Support of TTY/CTM	To benefit from TTY communication via GSM, CTM equipment can be connected to one of the three audio interfaces.
Firmware upgrade	Firmware upgradable over serial interface and SIM interface

HI-601VT Decoder

How to Use:

A. Connect the inclusive phone jack/PSII to mini1394 Y cable to the decoder: Mini1394 connector to the side of the decoder, phone jack to the phone jack outlet)

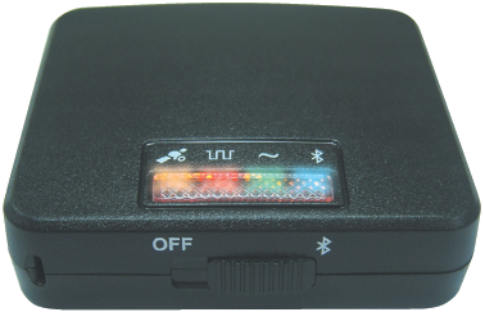
B. As soon as turn on the power switch, the red LED light start blinking once per second. The updated coordinates will be sent out from "mini-1394 output" and "Bluetooth output" each second.

PS. The data format is 4800, 8, N, 1 and computer will take the RS232 data from COM 1, COM2 or other com port.

C. Start mapping software and activate the GPS signal receiving. The most update location (or the last location) will be shown on the mapping software.

D. The orange LED light (GPS in 3D fixed) followed by the red light meaning the data is valid and is the real time location coordinate. The status also means that the car or the person should be in outdoor and the GPS receiver able to gets and lock more than 4 satellites. If the yellow light not lighted meaning the GPS data is not the real time coordinate (could be the old location coordinate) The status also means that the car or the person should be indoor and the GPS receiver unable to gets and lock more than 4 satellites.

Decoder LED indicator



Symbol	LED Color	Stay on	Blinking
	Orange	GPS data valid (3D fixed)	GPS data not valid
	Bluetooth	Bluetooth Connected	Bluetooth no connected
	Red	Decoding (4 seconds interval)	
	Green	Receiving data	

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