



e-68 User Manual

V. 1.0

Thank you for purchasing the e-68 SMS/GPRS GPS AVL. Please follow the instructions provided in this User Manual carefully to see the completeness of all components and parts while unpacking and install them on your car accordingly. If any thing found short, please contact our distributor directly for assistance.

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1. Introduction

e-68 SMS/GPRS GPS AVL is a positioning device which built-in GPS and GSM modules, and applies to fleet management and vehicle security.

2. Specifications

General Specifications	GPS Module Specifications
Dimension: 127mm x 81mm x 31mm	Model No.: SiRF Star III
Weight: 205g	Protocol Support: NMEA-0183, SiRF Binary, A13/F
Main Power Input voltage Range: DC 9V~36V	Datum: WGS-84(default), selectable for other Datum
Power Consumption: Standby- 900mW@DC 12V/888mW@DC 24V	Accuracy: <10meters at 2D RMS (Autonomous)
With GPS & GPRS on: 2.28W (190mA@DC 12V)	Receiver: 20 Channels
: 2.16W (90mA@DC24V)	Maximum Update Rate: 1Hz
Maximum Input Voltage for 4 Inputs: DC 36V	GSM Module Specifications
Open Collector Output Capacity: Max. Current- 250mA	Model No.: SIM340
Max. Voltage- DC 60V	Frequency bands: SIM340 Quad- Band 900,
Temperature: Operation- -20°C to +55°C	DCS 1800, & PCS 1900.
Storage- -40°C to +80°C	The band can be set by AT COMMAND,
Built-in Memory: 2MB Flash Memory	and default band is EGSM 900 and DCS 1800.
Input Ports: 4 x Input pins	Transmit power: Class 4 (2W) at EGSM900
Input1, Input2, ACC (positive triggered); SOS (negative triggered)	Class 1 (1W) at DCS1800 and PCS 1900
Output Ports: 3 x Output pins	GPRS connectivity: GPRS multi-slot class 10
Serial Ports: 1 x RS-232, 1 x PS-2	GPRS mobile station class B

3. Features

1. GSM/SMS/GPRS communication, supports 850/900/1800/1900 MHz
2. High performance SiRF star III GPS receiver built-in

3. Interface setup: Get/Set parameter via USB/SMS/GPRS
4. Log/tracking when ACC on
5. Log/tracking every particular time (set from 5~9999sec.)
6. Log/tracking when ACC off
7. SMS/GPRS real-time tracking
8. Emergency tracking
9. Built-in with 2MB flash memory data logger (32,000 times)
10. User password management
11. Panic Input port triggered: Notify Control Center & SMS to 3 specific cell-phones
12. Backup battery (optional)
13. Status Indicator and control panel (optional)

4. Start on

4.1 Accessories



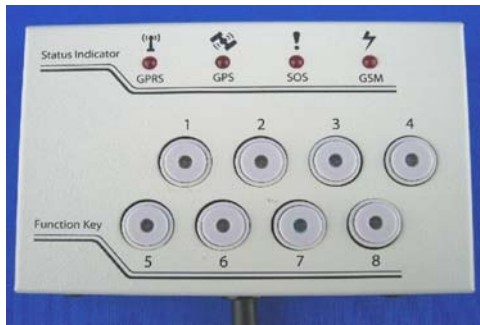
e-68 & GSM Antenna (Standard)



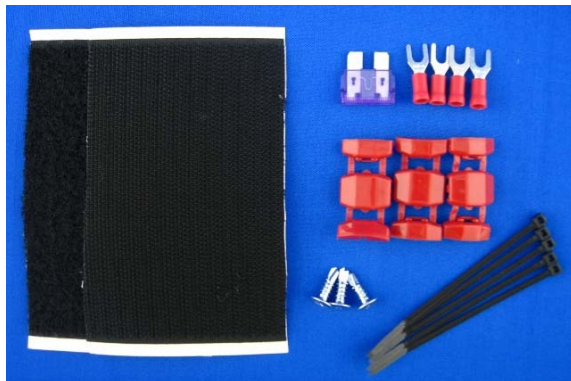
e-68 Power cable (Standard)



e-68 GPS Antenna (Standard)



e-68 Status Indicator & Control Panel (Optional)



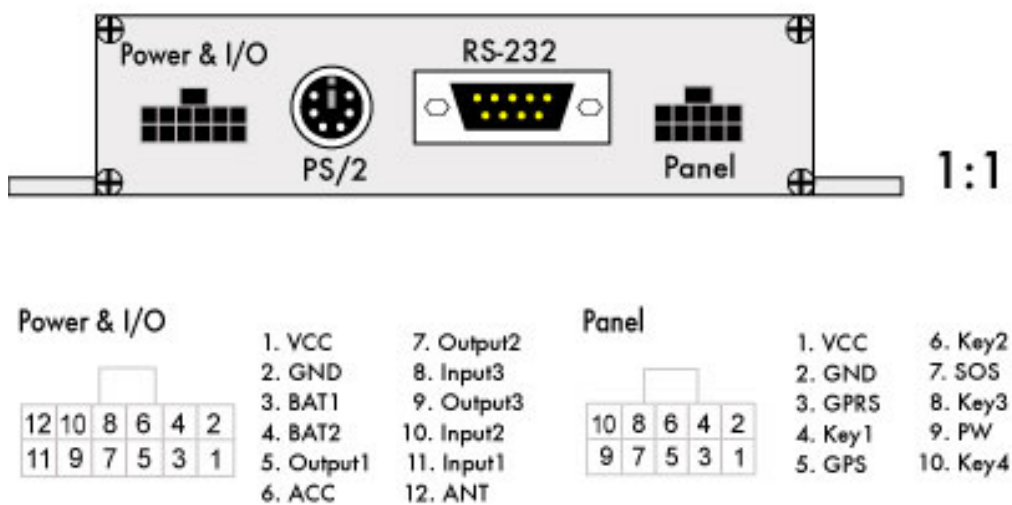
e-68 Installation Components

4.2 Install SIM-card

Please verify beforehand that the SIM card provides GPRS service and release the start pin. (This depends on different countries and telecom companies.)

With the contact face upward, insert the SIM card into the slot of AVL as illustrated in below figures. Align the SIM card with the slot and gently insert it into the slot.

4.3 Descriptions of Connection Ports

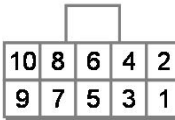


Power & I/O

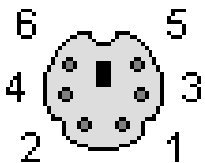


No.	Color of Cable	Definition of Pins	Description
1	Red	VCC	
2	Black	GND	
3	Red	BAT 1	BAT1 Battery Jumper
4	Red	BAT 2	BAT2 Battery Jumper
5	Brown	OUTPUT 1	Apply with a relay
6	Orange	ACC	
7	Yellow	OUTPUT 2	Apply with a relay
8	Green	INPUT 3	SOS Input
9	Blue	OUTPUT 3	Apply with a relay
10	Purple	INPUT 2	INPUT 2
11	Gray	INPUT 1	INPUT 1
12	White	ANT	Reserved for transmitter

Panel

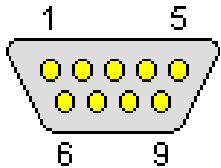


No.	Color of Cable	Definition of Pins	Description
1	Red	VCC	
2	Black	GND	
3	Gray	GPRS	GPRS status indicator
4	Brown	KEY 1	Key 1 status indicator
5	White	GPS	GPS status indicator
6	Yellow	KEY 2	Key 2 status indicator
7	Purple	SOS	SOS status indicator
8	Green	KEY 3	Key 3 status indicator
9		PW	POWER status indicator
10	Blue	KEY 4	Key 4 status indicator



Pin	Name	Dir	Description
1	DATA	↔	Key Data
2	n/c	-	Not connected
3	GND	—	GND
4	VCC	→	Power , +5 VDC
5	CLK	→	Clock
6	n/c	-	Not connected

RS232
Baud Rate: 9600
e-68T & s-68S use
Pin No. 2, 3, 5, 7, 8



DB-9 Pin	IDC Internal Pin Name	Name	Dir	Description
1	1	CD	←	Carrier Detect
2	3	RXD	←	Receive Data
3	5	TXD	→	Transmit Data
4	7	DTR	→	Data Terminal Ready
5	9	GND	—	System Ground
6	2	DSR	←	Data Set Ready
7	4	RTS	→	Request to Send
8	6	CTS	←	Clear to Send
9	8	RI	←	Ring Indicator

USB:
For Parameter Setting
& Configuration



Pin	Name	Cable color	Description
1	VCC	Red	+5 VDC
2	D-	White	Data -
3	D+	Green	Data +
4	GND	Black	Ground

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.