

Mechanical & Environmental

Dimensions (L x W x H) 121 x 82 x 29 mm
Weight 850g
Housing Aluminum case
Operational Temperatur 25-70
Storage temperature 4080
8 switch outputs 350mA (500mA max)
8 switch inputs 9(high level trigger) 4(low level trigger)
5 switch inputs Reservation for user define
1 analog input 0~18V
1 phase input 1.8V~18V (mileage checking)
1 RS-232 TTL 1200~115200 (9 kinds of baud)
Power Consumption 80mA~140mA
Backup Power 400mAh Ni-h battery
Input Voltage 10~30V

GPS Receiver

Chipset SiRF Star III
Frequency L1,1575.42 MHz
Code C/A Code

Protocol

NMEA 0183 V2.2
Default: GGA,GSA,GSV,RMC
Support: VTG,GLL,ZDA
 SiRF binary and NMEA Command

Available Baud Rate 4,800 to 57,600 bps adjustable
Channels 20
Flash 4Mbit
Sensitivity Tracking: -159dBm
Cold Start 42seconds, average
Warm Start 38seconds, average
Hot Start 1 seconds, average
Reacquisition 0.1 seconds, average

Accuracy

Position: 10meters, 2D RMS, 5meters, 2D RMS,WAAS enabled
Velocity: 0.1 m/s
Time 1us synchronized to GPS time

Maximum Altitude < 18,000 meter
Maximum Velocity <515 meter/second
Maximum Acceleration <4G
Update Rate 1 Hz
DGPS WAAS,EGNOS,MSAS
Datum WGS-84



GSM module Specifications

Frequency bands SIM 340 Quad-band: GSM 850, EGSM 900, DCS 1800, PCS 1900. The band can be set by AT COMMAND, and default band is EGSM 900 and DCS 1800
Compliant to GSM Phase 2/2+

GSM class Small MS

Transmit power

Class 4(2W) at EGSM900 and GSM850
Class 1(1W) at DCS1800 and PCS 1900

GPRS connectivity

GPRS multi-slot class 10
GPRS mobile station class B

Temperature range

Normal operation: -20c° to +55c°
Restricted operation: -25c° to -20c° and +55c° to +70c°
Storage temperature -40c° to +80c°

DATA GPRS

GPRS data downlink transfer: max. 85.6 kbps
GPRS data uplink transfer: max. 42.8 kbps
Coding scheme: CS-1, CS-2, CS-3 and CS-4

SIM340 supports the protocols PAP (Password Authentication Protocol) usually used for PPP connections.
The SIM340 integrates the TCP/IP protocol.
Support Packet Switched Broadcast Control Channel (PBCCH)
CSD transmission rates: 2.4, 4.8, 9.6, 14.4 kbps, non-transparent
Unstructured Supplementary Services Data (USSD) support

SMS

MT, MO, CB, Text and PDU mode
SMS storage: SIM card
Support transmission of SMS alternatively over CSD or GPRS. User can choose preferred mode.

FAX Group 3 Class 1

SIM interface Supported SIM card: 1.8V ,3V

External antenna Connected via 50 Ohm antenna connector or antenna pad

Audio features

Speech codec modes:
Half Rate (ETS 06.20)
Full Rate (ETS 06.10)
Enhanced Full Rate (ETS 06.50 / 06.60 / 06.80)
Echo suppression

Two serial interfaces

Serial Port 1 Seven lines on Serial Port Interface
Serial Port 1 can be used for CSD FAX, GPRS service and send AT command of controlling module.
Serial Port 1 can use multiplexing function, but you can not use the Serial Port 2 at the same time;
Autobauding supports baud rate from 1200 bps to 115200bps.
Serial port 2 Two lines on Serial Port Interface /TXD and /RXD
Serial Port 2 only used for transmitting AT command.

Phonebook management Supported phonebook types: SM, FD, LD, RC, ON, MC

SIM Application Toolkit Supports SAT class 3, GSM 11.14 Release 98

Real time clock Implemented

Timer function Programmable via AT command

Firmware upgrade Firmware upgradeable over serial interface