



PT-301

Data Sheet



Personal Tracking Device and Safety Phone

The PT-301 is a powerful GSM/GPS safety phone designed for seniors, family members, and lone workers. Its built-in GPS receiver has superior sensitivity and fast time to first fix. Its quad band GPRS/GSM subsystem supports 850/900/1800/1900 MHz. System integration is straightforward as complete documentation is provided for the full featured @Track protocol. The @Track protocol supports a wide variety of reports including emergency, geo-fence boundary crossings, low battery, scheduled GPS position (with cell-ID reporting) and man down alert. The PT-301 also supports inbound SMS display and a configurable 20 number address book.

Highlights

- Person Down Alert
- Low Power Consumption
- 4 Configurable Speed Dial Buttons and 1 Configurable Emergency Call Button
- OLED Display Allows Inbound SMS Messaging and Up to 20 Address Book Phone Numbers

Advantages

- Quad band GSM/GPRS 850/900/1800/1900 MHz
- Internal u-blox chipset
- White OLED display (128*96)
- Inbound SMS display and 20 number address book
- Embedded full featured @Track protocol
- Low power consumption, long standby time with internal battery
- Internal 3-axis accelerometer for power saving and motion detection including person down alert
- Internal GSM/GPS antennas
- CE certified, FCC certification in progress

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GSM Specification

Frequency	Quad band: 850/900/1800/1900 MHz Compliant to GSM phase 2/2+ - Class 4 (2W @ 850/900 MHz) - Class 1 (1W @ 1800/1900 MHz)
GPRS	GPRS multi-slot class 12 GPRS mobile station class B
RMS Phase Error	5 deg
Max Out RF Power	GSM850/GSM900: 33.0±2 dBm DCS/PCS: 30.0±2 dBm
Dynamic Input Range	-15 ~ -108 dBm
Receiver Sensitivity	Class II RBER 2% (-107 dBm)
Stability of Frequency	< 2.5 ppm
Max Frequency Error	±0.1 ppm

GPS Specification

GPS Chipset	56-channel u-blox All-In-One GPS receiver
Sensitivity	Autonomous: -147 dBm Hot start: -156 dBm Reacquisition: -160 dBm Tracking: -162 dBm
Position Accuracy (CEP)	Autonomous: < 2.5m SBAS: < 2.0m
TTF (Open Sky)	Cold start: 27s average Warm start: 27s average Hot start: 1s average

Interfaces

Mini USB Connector	For external power and configuration
Power Button	Power on and power off
SOS Button	SOS/Emergency alarm
Volume Adjustable Button	Two side buttons to increase/decrease volume
Dial, Reject Button	For dialing and rejecting incoming calls or menu selection
4 Preset Number Buttons	For quick dialing of preset numbers or menu selection

General Specification

Dimensions	92mm*42mm*17.9mm
Weight	74g
Internal Battery	Li-ion 1000 mAh
Standby Time	Without reporting: 480 hours 5 minutes reporting: 170 hours 10 minutes reporting: 250 hours
Charging Voltage	5V DC
Operating Temperature	-20°C ~ +55°C
Display	128*96, 1.3", white OLED display

Air Interface Protocol

Transmit Protocol	TCP, UDP, SMS
Scheduled Report	Report position and status according to preset time schedules
Geo-fence	Support up to 5 internal geo-fence regions
Low Power Alarm	Alarm when battery is low
Power On Report	Report when the device is powered on
Power Off Report	Report when the device is powered off
SOS/Emergency Alarm	SOS alarm when function key is pressed
Fall Detection	Person down alarm from 3-axis accelerometer



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