



# SP1603

## Multifunction Parolee GPS/GSM Tracker

### CREATING SAFER COMMUNITIES

SP1603 ankle worn offender monitoring bracelet designed with latest technology to monitor all kind of offenders where administrations seek accurate and reliable real-time tracking along with effective enforcement of home detention curfews.

### DUAL SIM CARDS

The device is equipped with dual SIM to keep connected with the call centre. The dual SIM offers flexible option to fulfill different use case.

### COMMUNICATION FLEXIBILITY

The advanced firmware transmits the information seamlessly via TCP, UDP or SMS. With flexible programing and reporting modes make it visible all the time to monitoring center.

### HOME DETENTION IBEACON

The SP1603 can paired with home iBeacon to extend the battery life and apply home detention if needed.

## FEATURES

- \* Multiple temper detections mechanism
- \* GPRS/HSPA/LTE Modem option
- \* Dual sim concept
- \* LBS location availability
- \* AGPS with 56 channels high sensitive module
- \* LED indication
- \* Vibration indication
- \* Long life rechargeable LI-ON Battery
- \* User configurable alerts and programing rules
- \* Multiple Communication mode (TCP, UDP & SMS)
- \* Geo-Fence Management
- \* Way Points Management
- \* Fiber Optic Shank Band
- \* Home & Prison iBeacon
- \* Smallest possible Design
- \* IP67 Waterproof Design

# SP1603

## Specifications

### General

Communication Modes	GPRS and TCP/UDP/SMS
Location Technology	56 channels
Operating Voltage	Internal Battery

### GPS

Location Technology	56 Channel uBlox 7 All in one GPS & QZSS L1 C/A, GLONASS L1OF, SBAS: WAAS, EGNOS, MSAS
Accuracy	2.0m CEP
Tracking Sensitivity	-162dBm]
Navigation Update Rate	10Hz
Antenna	Patch internal
Assist GPS	Supported

### Environmental

Operating Temperature	-10 ~ +50°C
Storage Temperature	-20 ~ +70°C
Humidity	100%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI RoHS	SAE J1113; FCC—Part 15B Compliant (Optional)

### Buttons

SOS	SOS Button for help and sending SMS to the pre-configured numbers
Status LEDs	GPS, Cellular, Power

### Key Features

- GPRS/HSPA/LTE Modem available
- Packet data (TCP/IP, UDP) & SMS support
- High Gain Internal Cellular Antenna for better Connectivity
- User Profiles for controlling via SMS
- High Sensitive GPS engine
- SOS button for help
- Low power consumption in sleep mode
- Built-in high capacity battery
- Zone Management
- OTA device configuration

### On Board

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
Wireless	Bluetooth BLE 4.0
3D Accelerometer	On Board

### Electrical

Operating Voltage	5V DC Charger
Power Consumption	40mA Active Tracking
Tracking Mode	With iBeacon 83mA Without iBeacon 42mA
Power Saving Mode	With iBeacon 25mA Without iBeacon 15mA
Backup Battery	Battery Recharging 5V DC

### Physical

Dimensions	83.50(L) x 79.50(W) x 29 (H)mm
Weight	200g (With Battery)

### Connectors, SIM Card Access

Mini USB	1 Mini USB (configuration/debug)
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	M2M Embedded SIM or Micro SIM

### Mounting

Not required

### Cellular

Data Support	SMS, TCP, UDP
GSM/GPRS Quad Band	850/900/1800/1900 MHz
HSPA Bands	800/850/900/1900/2100(Optional)
LTE Bands	B1/B2/B3/B4/B5/B7/B13/B17(Optional)
GSM/GPRS Output Power	Class 4 (2W) for 850 / 900 bands Class 1 (1W) for 1800 / 1900 bands
GSM/GPRS Fallback	GPRS Class 10
HSPA Data Rate	5.76Mbps UL/7.2Mbps DL (Optional)
SIM Card	M2M/Micro SIM Card

### Shank Band

Fiber Optic	Different Sizes of Fiber Optic Shank band available
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### Optional

- GPRS/HSPA/LTE
- Wall Charger
- Home Beacon
- Prison Beacon