



G1RUS™ Asset Tracker

New Asset/Covert GPS Tracker



The G1RUS GPS/GSM asset tracking unit offer innovative technology and features to make it first choice.

REPLACEABLE OR CHARGEABLE BATTERY

G1RUS has unique design and power standard which allows users to chose between replaceable or rechargeable batteries. Powered by CR123 replaceable batteries with total capacity of 6000mah which have enough juice to send one message a day for three years. G1RUS is designed in such a way that it can also take the rechargeable batteries and can be charged via external power connector.

OVER THE AIR

The G1RUS is powered by over-the-air device management and maintenance system, (Programming, Updates, and Logistics System). FOTA (Firmware update over the air), GSM Jamming detection and 28 hardware based geo-fences makes this the perfect choice for superior safety and security of your vehicle.

RUGGED AND MULTIPLE INSTALLATION OPTION

G1RUS rugged design with can bear harsh environment and offers multiple installation options. It can be installed with screws or bolts or can be installed with magnet shell. It makes G1RUS a complete solution for covert tracking, asset tracking and trailer tracking.

GICUS™ (Gosafe Installation Configuration Update System)

G1RUS is equipped with GICUS agent to remotely manage device firmware and configuration. It gives liberty to look all the history of firmware and configuration applied of said unit.

Features of G1RUS

- ❖ 6000mAh Replaceable Battery
- ❖ Rechargeable Batteries (Optl)
- ❖ Bluetooth 4.0 Embedded
- ❖ Can work more than 3 years
- ❖ Quad Band GSM Modem
- ❖ 3G Modem Optional
- ❖ LTE CAT-1 Optional
- ❖ FOTA (Firmware Update OTA)
- ❖ Flexible Programming Rules
- ❖ HDOP/VDOP for Precise Location
- ❖ Multiple Data Upload Modes
- ❖ Intelligent Power Management
- ❖ Configurable Inputs & Outputs
- ❖ Conditional Based Profiles
- ❖ 28 Day, Time & Speed based Geo-Fences
- ❖ 128 Way points for delivery management



Specification of G1RUS

General

Communication Modes	GPRS, HSPA, LTE and TCP/UDP/SMS
Location Technology	56 Channels GPS
Operating Voltage	3.5~5V DC

GPS

Location Technology	56 Channel Ublox GPS (with SBAS) GPS L1 C/A Code SBAS L1C/A Glonass L1OF
Accuracy	SBAS 2.5m CEP
Tracking Sensitivity	-162dBm
Cold Start	29 Sec
Hot Start	1 Sec
Antenna	Patch internal
Assist GPS	Supported

Cellular

Data Support	SMS, TCP, UDP
GSM/GPRS Quad Band	850/900/1800/1900 MHz
3G Hexa Band	B1, B2, B5, B6, B8, B19 (Optional)
LET CAT1	B2, B4, B12 (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)
LTE Data Rate	10Mbps UL/5.0Mbps DL (Optional)
SIM Card	1.8/3.3 V

Input/Outputs

Status LEDs	GPS, Cellular, Power
Charging Cord	6 point charging Cord
Digital Inputs	1 Digital input
Digital Outputs	1 Digital output
Serial Port	1 Serial port

On Board

CPU	ARM Cortex M3
Flash Memory	4Mbit (8000 records)
3D Accelerometer	On Board
Bluetooth 4.0	On Board
Power On/OFF	Switch On Board

About Gosafe

Gosafe is a dynamic leader in **GPS Fleet Management** products and services. Gosafe Company Ltd. was incorporated 1999. The Company was created to develop and distribute hardware and software solutions that utilize existing wireless network infrastructures to provide web-based vertical applications to commercial customers and consumers. Gosafe has Strategic Partners in Mobile Hardware Manufacturing, Mapping, Software Development, Wireless Data Services and Product Distribution, Products and Services.

Our competence of adaptability has enabled our products to enjoy substantial success in heterogeneous markets like America, Europe, Middle East, Asia and Africa. We have prosperously sold our products across more than 100 countries of the world. The methodology of our time-tested procedures has endowed us to provide our customers with products of consistent quality and has enabled us to meet the challenging time-lines offered by the customers. By virtue of this, today, we enjoy an outstanding market reputation and a dignified stance among our competitors.

Electrical

Operating Voltage	3.5-5V
Power Consumption	50µA 3.5V (Sleep) 50mA 3.5V (Active Tracking)
Replaceable Battery	CR123 x 4 (6000mAh)
Rechargeable Battery	LI-PO Boston Power (5300mAh) (Opt) Battery Recharge Temp -20 to +60°C

Standby Time with CR123 Battery

TCP Reporting	1 Message a day 1123 days 4 Message a day 336 days 1 Hour Reporting 60 days
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Physical

Dimensions	96(L) x 50(W) x 31.5(H)mm
Weight	140g (with Lithium battery) 160g (With CR123Abattery)

Environmental

IP Rating	IPX7
Operating Temperature	-40 ~ +70°C (CR123 Battery) -40 ~ +70°C (Rechargeable Battery)
Humidity	100%RH @ 50°C non-condensing
Shock & Vibration	U.S. Military Standards 202G and 810F, SAE J1455
EMC/EMI	SAE J1113; FCC-Part 15B
RoHS	Compliant (Optional)

Connectors, SIM Card Access

Connector Type	6 Pin
Serial to USB	1 USB (configuration/debug/optional)
Power Switch	Device Power ON/Off Switch
GPS Antenna	Internal
GSM Antenna	Internal
SIM Card	Internal (Embedded SIM optional)

Optional

- G1RUS-3G (HSPA Version)
- G1RUS-LTA (LTE CAT-1 AT&T)
- G1RUS-LTV (LTE CAT-1 Verizon)
- I/O Connector Pack
- Magnet Enclosure
- Fixed installation Enclosure

Key Features

- IP67 Water & Dust Proof Design
- Quad Band GSM/GPRS modem
- HSPA Hexa Band Modem (Optional)
- LTE CAT-1 AT&T or Verizon (Optional)
- Packet data (TCP/IP, UDP or TCP/IP + UDP) & SMS support
- Internal GSM Antenna for better security
- User Profiles for controlling via SMS
- High Sensitive GPS engine
- GPS and Glonass support
- Low power consumption in sleep mode
- 128 Way points
- Event management & output configuration
- Combine events and configuration
- Multiple profiles for different conditions
- FOTA (Firmware update over the air)
- OTA device configuration