

G1R-W8 WATERPROOF MOBILE TRACKER UNIT



Features

- IP-67 waterproof standard
- Wide range of power supply
- Store and resend up to 50,000 locations
- Tow alarm supported by G-Force plugin module
- Over the air firmware/configuration upload
- Easy installation
- Compact size

Specifications

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS					
Physical Characteristics					
Unit Size (L x W x H)	100 x 70 x 32 mm (±1mm)				
Weight	260 g (±10g)				
Material	Plastic housing				
Waterproof Casing	IP-67 waterproof standard				
Environmental Characteristics					
Operational Temperature	-20°C ~ +60°C				
Storage Temperature	-40°C ~ +85°C				
NOTE: Battery has individual operational and storage temperature limitations!					
General Characteristics					
GPIO	2 Inputs	Ignition Detection			
		Panic Alerts			
	2 Outputs	2 active low output, 200mA max			
3-Axis Accelerometer	±16G (default)				
Electrical Characteristics					
Input Voltage	6V _{dc} to 36V _{dc} , Current 2A, Ripple < 300mV _{p-p}				
Power Consumption	<u>Operation Mode</u>	6V _{dc}	12V _{dc}	24V _{dc}	36V _{dc}
	Transmitter	2A	2A	2A	2A
	Normal	150mA	200mA	250mA	300mA
	Standby	20mA	30mA	40mA	50mA

Battery Characteristics			
Backup Power	Li-Ion Cell Battery 3.7V/1000mAh	<u>Operation Mode</u>	<u>Duration</u>
		Transmitter	1 Hour
		Normal	12 Hours
		Standby	24 Hours
Battery Temperature Limitation	Operation Temp.	-20°C ~ +60°C	
	Storage Temp.	-20°C ~ +35°C	

GPS SPECIFICATIONS	
General	
Frequency	L1, 1575.42 MHz
C/A Code	1.023 MHz chip rate
Channels	20 parallel channels
Accuracy	
Position	10m, 2D RMS
	5m, 2D RMS, WAAS corrected
	< 5m (50%), DGPS corrected
Velocity	0.1m / sec
Time	1 sec synchronized to GPS time
Datum	
Default	WGS-84
Time to First Fix (TTFF)	
Cold Start	37 sec
Warm Start	34 sec
Hot Start	1.5 sec
Dynamic Conditions	
Altitude	18,000m (60,000 ft.) above sea level, max
Acceleration	4G, max
Velocity	515m/sec (1000 knots), max
Jerk	20m/sec, max

GSM SPECIFICATIONS	
Frequency Bands	Quad-Band : GSM850 / GSM900 / GSM1800 / GSM1900
Maximum RF Power	GSM850 / EGSM900 Class4 (2W)
	GSM1800 GSM1900 Class1 (1W)
Receiving Sensitivity	GSM850 / GSM900 < -104dBm
	GSM 1800 / GSM 1900 -102dBm ~ -104dBm
SIM Interface	Standard SIM interface (3V/1.8V)
GPRS Data Transmission	GPRS Class 10
	Coding scheme CS 1, CS 2, CS 3, CS 4
	Maximum transmission speed : 85.6 Kbit/s
	Support PBCCH
	Built-in TCP/IP protocol. Support multi-slot, ACK response, support large memory buffer
CSD Service	Support CSD data transmission up to 9600 bit/s
	Fax support : Group 3, Class 1.0
	Support USSD