



THE  
**GT2s**

THE WORLD'S MOST RUGGED  
**SATELLITE**  
SOLAR ASSET TRACKER



**GT2s: GLOBAL ASSET TRACKER - RUGGED CONSTRUCTION. LONG LASTING POWER. VERSATILE APPLICATION.**

Welcome to the next generation of solar asset tracking technology, the GT2s Global Asset Tracker. Combining the long life delivered by solar power with the reliability of a battery back-up, the intrinsically safe GT2s provides asset visibility in the most challenging conditions – even when sunlight is scarce. Its rugged design carries on the Geoforce legacy for tough and reliable devices to give you confidence the data will be available when you need it, year in and year out. With the GT2s, connectivity is delivered through the fully secure, global Iridium Satellite Network and features 2-way communication and Bluetooth Low Energy connectivity. Paired with Geoforce’s complete line of GPS tracking devices and Track & Trace software, you now have the ability to gather, interpret and put data from the edge of your operation to work.

## TRACK AND TRACE



Tanks



Rail Cars



Trailers



Shipping  
Containers



Frac Tanks



Cargo Units



Skimmers



ISO Containers



Baskets



Sand Traps



Cable Spools

And More...

## KEY PRODUCT FEATURES

### The toughness of Geoforce.

- **ATEX/ IECEx Intrinsically Safe Device** – Certified for use in Zone 0 hazardous environments
- **Extremely Rugged and Reliable** – Fully sealed design for long-lasting operation in the world’s harshest environments

### The long life of solar.

- **Up to 10 years** - Operational service life
- **Dual-Powered** - Solar rechargeable batteries coupled with a high-capacity non-rechargeable battery backup system provide a higher-degree of asset visibility assurance in situations where sunlight is limited or nonexistent

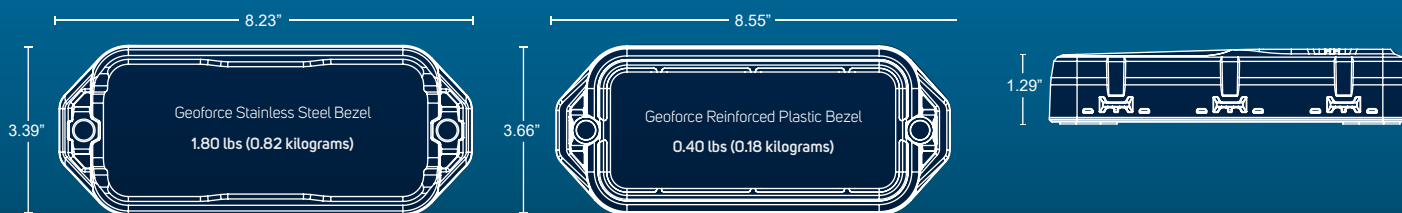
### The versatility you demand.

- **Global 2-way Satellite Communication** – using the Iridium Satellite Network
- **Geoforce Software Compatible** – with Geoforce Device Manager and Mobile Field Tool software applications
- **Quick & Easy Installation** – installs in minutes on nearly any asset

## PHYSICAL

Dimensions: Length 6.5 in x Width 2.8 in x Height 1.3 in  
(164.2 mm x 71.2 mm x 32.9 mm)

Device Weight: 1.2 lbs (0.54 kilograms)



## ENVIRONMENTAL STANDARDS

Operating Temperature:	-40°F to 185°F (-40°C to 85°C)
Intrinsic Safe Operating Temperature:	-40°F to 149°F (-40°C to 65°C)
Recommended Storage Temperature:	41°F to 77°F (5°C to 25°C) for best results
IP Rating:	IP68 to 165ft (50m) and IP69K
High Temp Resistance:	MIL-STD-810G: 501.5 IEC60068-2-2 to 185°F (85°C)
Low Temperature Resistance:	MIL-STD-810G: 502.5, IEC60068-2-1 to -58°F (-50°C)
Combined Thermal / Humidity Exposure:	MIL-STD-810G: 507.5, 20-95%RH up to 140°F (60°C)
Solar Radiation Exposure:	UL746C F1, ASTM-G154 to 1.0 year
Salt Fog Exposure:	MIL-STD-810G: 509.5 IEC60068-2-11 to 1000 hours
Atmosphere Resistance:	ASTM D543-95, MIL-STD-810G: 518.2
Combined Operating Temp / Altitude:	MIL-STD-810G: 500.6 to 15000 ft (4570m)
Thermal Shock:	MIL-STD-810G: 503.5, 20 cycles between -40°F to 185°F (-40°C to 85°C) < 1min transition
Impact Resistance:	ASTM D3763
Operational Vibration:	MIL-STD-810G: 514.7, IEC60068-2-80 to 7.5Grms Random (5Hz-2000Hz)
HALT:	HALT testing guideline 993-0336 to 50Grms (5Hz - 10000Hz, -40°F to 185°F [-40°C to 85°C])
Mechanical Shock:	MIL-STD-810G: 516.7 to 300Gpk

Your teams and your equipment work in demanding environments. Your asset tracking technology needs to keep up. Armed with data from the edge of your operations, you can make better decisions and deliver better results. That's why at Geoforce we purpose-build rugged asset tracking devices and software trusted by the hardest working teams in the toughest environments anywhere.

## CERTIFICATIONS

FCC: Part 15, Part 25  
Industry Canada (IC): RSS-210, 247, ICES-003 Class B  
EU: RED Directive 2014/53/EU, RoHS Directive 2011/65/EU, REACH Regulation EC 1907

### Ordinary Locations Safety

IEC62368-1, UL 62368-1, CSA C22.2#62368-1,  
UL 60950-22, CSA C22.2#60950-22



**ATEX:** EN 60079-0, EN 60079-11  
CE II 1 G EX ia IIC T4 Ga  
-40°C ≤ Ta ≤ 65°C, IP68

**IECEx:** IEC 60079-0, IEC 60079-11  
Ex ia IIC T4 Ga  
-40°C ≤ Ta ≤ 65°C, IP68

### OSHA and USA Hazardous Location Classification:

UL 60079-0, UL 60079-11, UL 913  
Class I, Division 1, Groups A-D, T4  
Class I, Zone 0, AEx ia IIC T4 Ga  
-40°C ≤ Ta ≤ 65°C, IP68

### Canada Hazardous Location Safety:

CSA 22.2 No. 60079-0,11, No. 157-92  
Class I, Zone 0, Ex ia IIC T4 Ga  
-40°C ≤ Ta ≤ 65°C, IP68

## SATELLITE NETWORK

**iridium**

Protocol: Iridium SBD

Frequency: 1616 MHz to 1626.5 MHz

Max Transmit Power: 1.6W

## POWER MANAGEMENT

Up to 10-year operational service life. The backup battery capacity provides 2 times per day reporting for up to 5 years with limited solar availability.

In storage, with the magnet installed, the backup battery will deplete at approximately 6% per year.