



## **Solar-powered, ruggedized global two-way asset tracking and sensor gateway for unpowered and powered assets.**

The AssetPack™ (AP) is a durable, multi-functional device designed to provide low cost of ownership with long 10 year service life and easy installation and maintenance features.

The device is a self-contained, low profile, environmentally sealed asset gateway, powered by an energy efficient solar-rechargeable battery engineered to survive long low sun conditions and provide up to 10 years of data with zero maintenance. The AP can be mounted on almost any type of asset used in the world's harshest conditions. Because it is intrinsically safe, it can be used in hazardous locations (HAZLOC) to track hazardous material shipments (HAZMAT) or monitor hazardous operations.

The AP features advanced memory-rich, on-board processing capabilities supporting highly configurable modes of operations, business logic, reporting rates, alert thresholds, on-board geofences and configurable IO interfaces for various sensor-based applications. Everything is configurable over the air.

The AP leverages the 100% reliable global two-way coverage of the Iridium satellite network and/or next generation cellular technology providing seamless uninterrupted connectivity and access to fixed and mobile assets anywhere.

The AP delivers actionable information that helps businesses optimize operational efficiencies and reduce cost making this device an ideal solution for tracking and managing of almost any unpowered asset such as trailers, containers, vessels.

The AP can be remotely managed through the AssetLink DeviceManager user interface or via API so that actionable information can be visualized through any AssetLink Value Added Reseller or customer data system.

## **Experience The Robust Flexibility**

**10 year service life with zero maintenance**

**Solar-rechargeable battery with power save modes**

**Easy installation - installs in minutes**

**IP67 Rugged enclosure**

**Intrinsically Safe for HAZLOC and HAZMAT**

**True two-way, 100% global connectivity**

**On-board geofencing for immediate arrival and departure alerts**

**On-board memory for advanced sensor-based applications**

**Over-the-air and local programming**

**Configurable IOs –interface cable**

**Published API for VAR Integrations – device and data integrations**

**Built-in motion sensor**

**Built-in temperature sensor**

**Optional AES 256 Encryption**

# AssetPack™ Specifications

## Form Factor

Enclosure	12.4" x 3.2" x 1.15" (31.50 x 8.1 x 2.9 cm)
Weight	18.9 oz (535 g)

## GPS

Location Accuracy	<5m (50%) CEP
Acquisition & Tracking Sensitivity	-161.5 dBm
Cold start (open sky)	33s
Hot start (open sky)	<2s (typical)

## Interfaces

Harness Connector	8 pin circular
Inputs/Outputs	Analog or Digital In/Out (2)
Serial	RS 485 (1), MODBUS, CANBUS/J1939
On/Off	Multi-function switch
Sensor Power Capability	7-8VDC or higher depending on sensor

## Communications

Satellite Only	Iridium Short Burst Data 1616-1626.5 MHz Time Domain Duplex TDMA/FDMA
Cellular Only	4G LTE Cat-4/3G (North America) 3G HPSA/2G (Global baseline)
Hybrid	Cellular/Satellite lowest cost routing

## Power

Battery	Solar Rechargeable Battery: 5300 mAh, 7.2VDC
Cycles	100% DOD >1000 cycles
Shelf life (Charged)	>3 years (inventory mode)
Solar Panel	Mono-crystalline silicon 6V, 1W
External Power	10-18V, up to 500 mA

## Environmental

Temperature (operating)	-40° C (-40° F) to +70° C (+158° F)
Humidity	100% at 50° C, salt, fog per MIL STD 810
Shock/Vibration	MIL STD 810 and SAE J1455
Water/Dust	IP67/NEMA6, waterproof full immersion at 1m depth

## Certifications

FCC CFR parts 15 and 25  
Industry Canada CAN ICES-3 (A) / NMB-3 (A)  
CE Mark  
ETSI EN 301 489-1 V1.9.2 & EN 300 440-2  
UL/CSA/EN/IEC 61010-1  
ANSI/ISA 12.12.01-2000 Class I, Division 2  
CAN/CSA C22.2 No. 213 Class I, Division 2  
ATEX Zone 2 Compliant (with ATEX cage)

## Mounting Options

Magnet mount  
VHB Tape  
Flat Plate mount with Self-tapping Screws  
Rugged cage  
ATEX protective cage

## Accessories

Engine run time harness  
Tamper alert trigger switch  
Temperature sensor  
Panic button  
Magnetic door sensor  
Container security cable  
Multi-functional interface cable  
Magnetic and door mount brackets  
Protective cage  
ATEX cage