

AssetPack-3™

Solar-powered, low cost, low profile, untethered, rugged two-way global GPS satellite tracker and multi-sensor gateway

AssetLink's AssetPack-3™ (AP3™) global satellite tracker is one of the most versatile, lowest cost of ownership two-way asset tracking and sensor monitoring solutions ever offered, and is especially designed for two-way communication with unpowered assets. The AP3 is a completely enclosed, self-contained, waterproof, dustproof, fully-ruggedized solution that enables pinpoint monitoring of any fixed or mobile asset anywhere in the world. Available in solar/hard-line or hard-line only options, the battery lasts the lifetime of most industrial equipment and is designed to survive long low sun conditions. For applications beyond GPS, it can be rapidly configured to monitor a wide range of analog and digital sensors and data inputs.

As an Iridium Connected product, the AssetPack-3 leverages the global coverage of the Iridium satellite constellation to provide reliable, uninterrupted, two-way data communication between assets in the field and back office enterprise applications. After activation on the Iridium network, the AssetPack-3 will maintain two-way communication with assets anywhere on the ground, in the air, or at sea. Its fully two-way communication capability supports over-the-air commands to change reporting behavior or manage machinery.

The AssetPack-3 is available for purchase by all Iridium partners with unique low-cost tracking plans available only for the AssetPack-3. AssetLink offers no-cost rapid customization leveraging its modular design and a straightforward data portal

or API for partners to add a wide array of sensors and device behaviors including scheduled check-ins, sensor threshold alarm triggers, on-board geofencing, and much more.

For additional information including where to buy, please contact info@assetlinkglobal.com or call at +1 303 862-8745.

The small, low-profile AssetPack-3 is completely self-contained and designed to Intrinsic Safety standards. Depending on the version selected, the weather-sealed IP67 unit includes:

- Rechargeable Batteries
- Solar Panels for battery charging
- Antennae
- GPS
- Processors
- Satellite Transceiver
- Two analog or digital input/outputs
- RS-485 Interface
- Hard line power
- MODBUS or CANBUS/J1939 options
- Internal Geofencing option

This complete solution can be activated and installed in less than 30 seconds with no wires or cables. It is available with either the AssetLink AssetVision™ web-based asset management portal to provide a low cost of ownership solution for any global asset monitoring requirement, or as a hardware only purchase, with payload parsing documentation. For unparalleled long life in the field, the solar powered configuration is designed to operate over the satellite network for up to 10 years.



Features

- Global two-way satellite connectivity over the Iridium satellite network
- Unobtrusive, completely enclosed and self-contained
- Ten-year battery and solar panel for unpowered assets
- Waterproof and dustproof
- Modular design for rapid customization to your customers' needs

Benefits

- Reliable, two-way data communications
- Full global coverage, including all maritime and both Polar Regions
- Low probability of detection
- Easy installation
- Maintenance free
- Extended in-field life cycle
- Low-cost of ownership
- Rapid, responsive customization to meet exact customer requirements every time



Specifications

Form Factor

Solar Powered AP3100/3300 (Untethered)

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

Hard Line Power AP3500/3700 (DC Power Line)

Enclosure: 6.0" x 3.2" x 1.15" (15.2 x 8.1 x 2.9 cm)
Mass: 11.5 oz (326g)

Weather Sealing

Temperature: -40° C (-40° F) to +60° C (+140° F) operating
Humidity: 100% at 50° C, salt, fog per MIL STD 810
Vibration/Shock: MIL STD 810 and SAE J1455
Water and Dust: IP67/NEMA6, waterproof, full immersion at 1m depth

Power

Battery: Hard Line AP3500/AP3700 Battery: 800 mAh, 7.2VDC
Solar Power AP3100/3300 Battery: 5300 mAh, 7.2VDC
Cycles: 100% DOD >1000 cycles
Shelf life, charged: >3 years
Solar Panel Option: Mono-crystalline silicon 6V, 1W
External Power: 9-24V, up to 500 mA

Sensor Input Options

- AP3100 and AP3500 offer one powered or unpowered analog or digital input
- AP3300 and AP3700 offer choice of up to two powered or unpowered analog or digital inputs, two 4-20 mA inputs, or two temperature sensors
- AP3300 and AP3700 offer RS-485, MODBUS, CANBUS/J1939 or serial interface
- Accessories: Engine run time harness, temperature sensor, panic button, door security wire, multifunctional interface cable, magnetic and door mount brackets
- Internal motion and temperature sensors; optional geofencing, AES encryption

Communication

Iridium Short Burst Data

1616-1626.5 MHz

Time Domain Duplex

TDMA/FDMA

GPS

Acquisition and tracking sensitivity: -161.5 dBm

Cold start (open sky): 33s

Hot start (open sky): <2s (typical)

Position Accuracy (50% CEP): <5m



Programming

Java application over USB cable, configuration changes over the air via data portal API

Mounting

VHB tape; magnet, door and screw brackets; heavy equipment cage

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

In Process

UL/CSA/EN/IEC 61010-1

ANSI/ISA 12.12.01-2000 Class I, Division 2

ATEX / EN60079-0 & EN60079-15

CAN/CSA C22.2 No. 213 Class I, Division 2

Intrinsic Safe Operation

Iridium offers the only truly global communications network for mobile voice and data, connecting customers everywhere they need to be without limitation or compromise.

iridium.com



From container tracking to agricultural monitoring to military applications, Assetlink Global helps customers keep track of their business assets in ways they never could before.

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