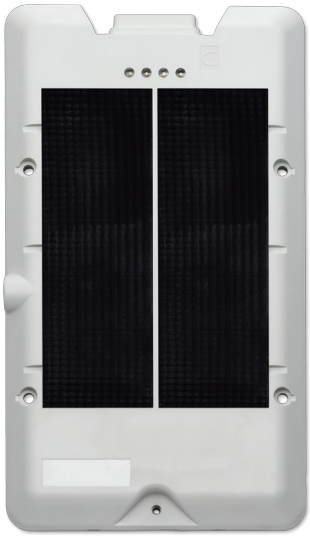
SkyBitz Enterprise Fleets

Product Datasheet
Falcon GXT5002



Key Features

- LTE Network Coverage
- Efficient Solar Power
- No Replacement of Batteries Needed
- For 3G/4G Networks
- Enhanced Location Technology
- Self-Contained
- Quick Installation & Field Verification
- Extremely Durable & Compact, Low-Profile Design
- Supports Sensors

Solar Powered Asset Management.

The SkyBitz® Falcon GXT5002 is a solar-powered, remote data collection device for better asset utilization and cargo visibility. It was designed to provide a low cost of ownership, with a long service life and is easy to install and maintain. The Falcon GXT5002 is ideal for operations that require on-demand reporting on the status of unpowered mobile assets. The solution delivers actionable information that allows users to identify areas to cut costs and avoid capital expenditures through better utilization of existing assets. It solves the need to keep track of unpowered assets for long periods of time and operates on a 3G/4G cellular network that provides seamless North American cross-border coverage.

The Falcon GXT5002 is a custom built cellular, remote data collection device that provides accurate pin-point location information of assets and cargo status. The Falcon GXT5002 provides relevant reporting and is configurable to each user's needs. Data can be requested from the GXT5002 on-demand and it can also be programmed over-the-air, which allows customers to update reporting frequency and behavior. It provides reporting showing:

- Arrival and Departure Times
- Idle Durations
- Mileage Driven
- Accurate locations
- SkyFence Adherence and Security Alerts
- Loaded or Unloaded via Cargo Sensor
- Door Open or Closed via Door Sensor
- Tire Pressure Status via Tire Sensor
- Tractor Hookup
- Start /Stop Monitoring

Quick Install. Long Lasting.

The Falcon GXT5002 is an externally mounted asset tag that was designed to be power efficient; it operates on a long-lasting battery pack recharged from solar panels. Moreover, its battery pack doesn't need to be replaced. It can report for up to 90-120 days without direct exposure to sunlight, allowing customers to have continuous knowledge of the location of an asset.

The Falcon GXT5002 is built to last, it is IP67 rated and can operate in rigorous environments that demand a reliable and high performance device. It features an untethered installation. This means the device is self-contained and does not require wires or any special tools in the installation, which equates to a quicker and easier installation process. The average install time is 15 minutes or less. Its design also features a low profile and built-in LED lights that provide instant installation verification, eliminating any guesswork and allows users to check battery status and send diagnostic messages while in the field. These features make it an ideal solution for all types of equipment and cargo including:

- Intermodal Containers
- Dry Van Trailers
- Heavy Equipment

The Falcon GXT5002 provides:

- **In-Transit Visibility**
  SkyBitz helps companies better support just-in-time logistics and increases customer satisfaction and trust by demonstrating continuous control of assets.
- **Fleet Dispatch Optimization**
  SkyBitz reduces capital expenses for asset purchases and leases, reduces fuel and staffing costs, and ensures optimal operating conditions and efficiency.
- **Remote Monitoring & Control**
  SkyBitz helps reduce equipment costs, improve maintenance planning, limit liabilities for cargo spoilage and pre-empt operational failures.
- **Safety & Security**
  SkyBitz provides constant monitoring of asset location and status, providing enhanced security.

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Actionable Data Through SkyBitz InSight

The Falcon GXT5002 can be managed through the best-in-class SkyBitz InSight web application. Through SkyBitz InSight users can track, monitor and manage a broad range of assets. SkyBitz InSight uses exception based reporting to deliver insightful information that allows management to make quick, data-based decisions to more effectively control their assets. SkyBitz InSight features flexible visual dashboards to help you quickly analyze large data sets and view them in a more effective and intuitive way to maximize utilization and profits.

Hardware Specifications

PHYSICAL

Dimensions (L x W x H):	11 x 6.5 x 1 in (279.4 mm x 165.1 mm x 25.4 mm)
Housing Material:	Valox 357U
Weight:	1.83 lb (0.83 kg) with brackets 1.68 lb (0.76 kg) without brackets

ENVIRONMENTAL

Operating Temperature:	-40°C to +70°C
Storage Temperature:	-55°C to +85°C
Vibration:	S9401, Random vibration from 10 to 500 Hz per MIL-STD-810G Figure 514.5C-1 "U.S. Highway Truck Vibration Exposure"
Humidity:	MIL-STD-810G, Method 5.4 for six full cycles as described in Figure 507.4-1
Shock:	S9401, MIL-STD-810G, Method 516.5 Procedure I using an impact having a shock response spectrum equal to that labeled "Functional Test for Ground Equipment" in Figure 516.5-8 of MIL-STD-810G
Drop:	MIL-STD-810G, Method 516.5, Procedure IV
Impact:	EN 60950-1:2006 clause 4.2.5
Salt Fog:	MIL-STD-810G, Method 509.4
Water Spray & Steam Cleaning:	SAE J1455 Section 4.5
Dust & Sand Bombardment:	MIL-STD-810G, Method 510.4
Solar Load & UV Exposure:	MIL-STD-810G, Method 505.4 Procedure I, Cycle A1 and fifty-six 24-hour cycles per Procedure II
Dust/Water Ingress Protection:	IP67 under IEC 60529
Power Details:	Lithium Ion Cell Rechargeable Battery

CELLULAR SPECIFICATIONS

Frequency Range:	850/900/1800/1900MHz
Protocols:	850MHz/1900MHz GSM/GPRS/EDGE 850MHz/1900MHz UMTS/HSDPA

INTERFACES

I/O Connector:	26 Pin D-Sub Connector
Serial Ports:	RS485, RS232
Smart Sensor Tracking (SST):	Accelerometer and speed
Input/Outputs:	2 open / closed switch connections; 2 open / closed control lines; 2 analog inputs
LEDs:	Visual indicators for external power, charging, diagnostics and installation

CERTIFICATIONS	FCC: CFR 47 Part 15 Industry Canada PTCRB RoHS