



Real-Time & Relevant Asset Management.

Built upon the award-winning SkyBitz® Falcon GXT3000 solution, the GXT3102i is a custom built all-in-one cellular product designed to deliver a more complete picture of intermodal chassis' location and load status. The GXT3102i provides frequent and relevant reporting on chassis location and container loaded or unloaded status via a built-in sensor.

The Falcon GXT3102i operates on a 3G/4G cellular network and provides seamless North American cross-border coverage. Moreover, real-time data can be requested from the unit on-demand and it can also be programmed over-the-air, which allows customers to update reporting frequency. For example, managers can program reporting requirements with the device to have it shut it off for periods of time and geographic zones like when the chassis is on rail, to save even more power and unnecessary reporting.

The Falcon GXT3102i delivers actionable information that allows users to identify areas to cut costs and avoid capital expenditures through better utilization of existing assets. It provides comprehensive asset visibility with real-time data needed to run operations more efficiently, such as:

- Arrival and Departure Times
- Stop and Idle Times
- Loaded or Unloaded via Container Detection Sensor
- SkyFence Adherence and Security Alerts
- Hook and Un-hook Alerts

Designed For Intermodal Chassis.

The Falcon GXT3102i is housed in a proprietary mounting bracket specifically designed for chassis that enables a quick and easy installation on the cross beam of a chassis. It features an ultrasonic Container Detection Sensor in addition to the mobile terminal and antenna, which provides total visibility of the asset and loaded container. The bracket is made of galvanized steel and is designed to prevent damage to the unit and to withstand harsh environments.

The Falcon GXT3102i was designed to be power efficient; it operates on rechargeable batteries and can be tethered to a power source such as a tractor seven-way. Even when not connected to power, the GXT3102i can report for up to 90-120 days, allowing customers to have continuous knowledge of the location of an asset. Its design features 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.

SkyBitz delivers real-time tracking and information management solutions that provide a clear line of sight to mobile assets anytime, anywhere.

The Falcon GXT3102i 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.

Key Features

- Designed for Intermodal Chassis
- Integrated Covert Mounting Bracket
- Container Detection Sensor
- Power Efficient
- Extremely Durable for Rugged Environments
- GPS Technology
- For 3G/4G Networks
- Certifications -
- FCC: CFR 47 Part 15
- Industry Canada
- PTCRB
- RoHS



Container Detection Sensor Specs

Dimensions (L x W x H):

4.9 x 3 x 1.6 in
 (12.5 x 7.6 x 4.0 cm)

Housing Material:

357U Valox Plastic

Operating Temperature:

-40 to 158 F (-40° to 70° C)

Storage: -67° to 185° F (-55° to 85° C)

Vibration: Random vibration from 10 to 500 Hz per MIL-STD-810F

Humidity: MIL-STD-810F

Shock: MIL-STD-810F

Drop: MIL-STD-810F

Impact: EN 60950-1:2006 clause 4.2.5

Salt Fog: MIL-STD-810F

Dust & Sand Bombardment:

MIL-STD-810F

Solar Load & UV Exposure:

MIL-STD-810F

Water Spray & Steam Cleaning:

SAE J1455 Section 4.5

Dust/Water Ingress Protection: IP67

Power Details:

Internal 3.6V Primary batteries

Antenna Specs

Dimensions:

Circular 3.25 in diameter x 0.7 in depth
 (8.36 x 1.78 cm)

Housing Material:

ABS 777 UV Resistant

Weight: 1.5 lb (680.3 g)

Operating Temperature:

-40° to 158° F (-40° to 70° C)

Storage: -67° to 176° F (-55° to 80° C)

Dust/Water Ingress Protection: IP67

Antenna Interface:

Two, Color Coded SMA-Female,
 Cellular and GPS

Coaxial Cable: RG-174U, 6 ft length
 cable bottom ingress, Two SMA-Male,
 VHB mount with retaining nut,
 Combination Cellular and GPS

Hardware Specifications

BRACKET

Material: 16GA 304 Stainless Steel
 Dimensions (W x H x D): 18.25 x 4 x 8.25 in (46.36 x 10.16 x 20.96 cm)

MOBILE TERMINAL

Material: Valox357U
 Dimensions (W x H x D): 9 x 3.5 x 2 in (22.86 x 8.89 x 5.08 cm)

ENVIRONMENTAL

Operating Temperature: -22° to 158° F (-30° to 70° C)
 Storage Temperature: -67° to 185° F (-55° to 85° C)
 Vibration: Random vibration from 10 to 500 Hz per MIL-STD-810F Figure 514.5C-1 "U.S. Highway Truck Vibration Exposure" MIL-STD-810F, Method 5.4 for six full cycles as described in Figure 507.4-1
 Humidity:
 Shock: MIL-STD-810F, 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-810F
 Drop: MIL-STD-810F, Method 516.5, Procedure IV
 Impact: EN 60950-1:2006 clause 4.2.5
 Salt Fog: MIL-STD-810F, Method 509.4
 Water Spray & Steam Cleaning: SAE J1455 Section 4.5
 Dust & Sand Bombardment: MIL-STD-810F, Method 510.4
 Solar Load & UV Exposure: MIL-STD-810F, 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: External power source (e.g. 7-way connector) and an internal rechargeable battery system. The rechargeable battery pack operates over a temperature range of -30°C to +60°C. Battery survives temperatures up to +75°C. External power source interface supports DC Voltages 9.0 to 36 Volts. SAE J1455 and SAE J1113-11.

CELLULAR SPECIFICATIONS

Bands: LTE – B2,B4,B5,B17, 3G – B2, B5
 Technologies: 4G LTE (Cat 1), 3G, HSPA+

INTERFACES

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