

# Loner M6i

INTRINSICALLY SAFE

TWO WAY  
VOICE



## Monitor Employees in Hazardous Locations

GSM (Global System for Mobiles) safety monitoring device

Mobile personnel often work in uncontrolled environments that pose countless threats to worker safety. Loner® safety monitoring solutions from Blackridge Solutions are simple, economical, and non-intrusive tools that monitor workers' safety and help to manage an efficient emergency response when needed.

Loner M6i incorporates patent pending technology and is the first dedicated remote monitoring safety device that is certified Class I, Division I and Class II, Division 1 intrinsically safe. It complies with work alone safety legislation mandated in some jurisdictions, and is easy-to use. Your organization has unique structures and processes – Loner solutions are flexible and highly configurable, accommodating rather than imposing upon your business.

Featuring micro-electro-mechanical sensors, Loner M6i delivers the world's first True Fall Detection technology within a remote worker safety monitoring solution. Internal accelerometers and gyroscopes not only detect falls but also trigger a safety alert in man-down situation when a worker becomes motionless. Rather than incorporating an emergency button that may be difficult to press when needed, Loner M6i incorporates an intuitive emergency latch that makes it easy for the worker to call for help at any time while minimizing false alerts.

GPS is not a reliable position technology within commercial buildings. Loner M6i is compatible with the Loner Beacon, indoor and outdoor positioning technology that can be configured for five meters resolution.

All safety alerts communicated to monitoring personnel include the geographic location of the worker in distress for immediate and efficient emergency response. Monitoring options include email, SMS and web portal. The Loner system can be self-monitored or externally monitored through a third party monitoring centre or both.



### Intrinsically Safe

Class I, Division 1, Groups A, B, C, D  
Class II, Division 2, Groups E, F, G



### True Fall Detection® & Alerting

Differentiates falls from other activity



### Emergency Latch & Alerting

Help is a latch-release away



### Man-down Detection & Alerting

Lack of worker motion generates a safety alert



### Check-In Monitoring & Alerting

Optional missed worker check-in generates a safety alert



### GPS Positioning

Unlimited live, continuous and scheduled locating



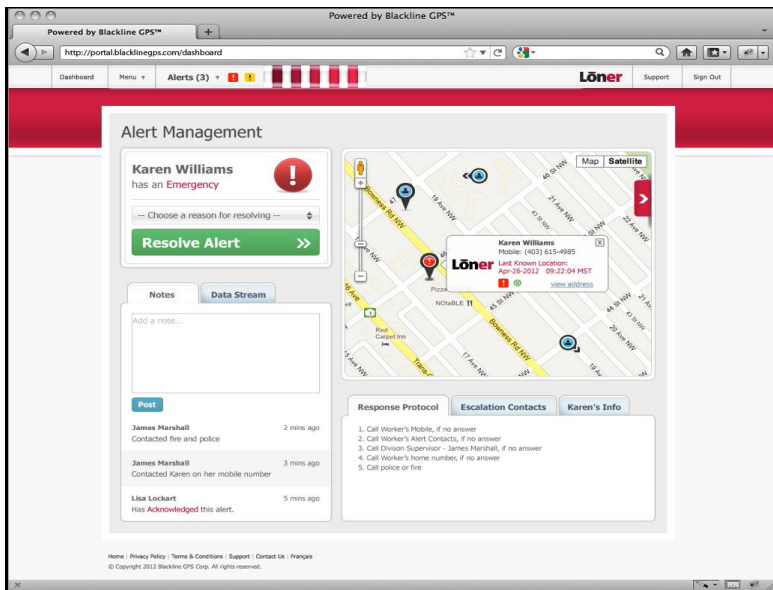
### SureSafe™ Monitoring Light

Confidently know when safety is monitored



### Precise Indoor Positioning

Location beacons provide adjustable resolution



## Benefits

- ✓ Global awareness of your workforce's real-time safety
- ✓ Improves safety awareness of remote workers
- ✓ Quickly mobilize an emergency response by mapping worker locations in Loner Portal
- ✓ Real-time safety alerting increases awareness of safety incidents
- ✓ Achieves regulatory compliance as required in some regions
- ✓ Reduces mobile worker anxiety about safety
- ✓ An automated system that does not require manual worker check-in
- ✓ Immediate alert is triggered when the worker is incapacitated
- ✓ High capacity 1000 mAh battery provides 25 hours of operation
- ✓ Customizable location scheduling provides bread-crumbs of worker locations
- ✓ Easy training for workers and monitoring personnel
- ✓ Affordable for both small business or corporate deployment
- ✓ Compatible with Loner Beacon indoor / outdoor location technology

## Advantages

- ✓ Loner system alerts monitoring personnel even when Loner Portal is not used
- ✓ Emergency escalation list provides multiple layers of alerting to ensure an incident is addressed quickly
- ✓ Easy-to-use web-based Loner Portal for efficient mapping and setup
- ✓ Customizable Loner Portal account implementation for diverse customer needs
- ✓ Units can be configured quickly and easily over-the-air without manually plugging the device in
- ✓ Sharing of Loner devices across multiple Loner Portal user accounts
- ✓ Firmware upgradable over-the-air accommodates future enhancements
- ✓ Web-hosted Loner Portal user account—no software to install
- ✓ Loner API for custom software development

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## Specifications

### Size & Weight

**Size:** 63 mm W x 107 mm L x 22 mm D (2.48" x 4.213" x 0.87")  
**Weight:** 152 g (5.4 oz)

### Safety Features

**Fall detection technology:** True Fall Detection, tri-axis accelerometer, tri-axis gyro, plus software processing | **Emergency latch:** open latch to trigger alert | **Silent emergency:** press & hold acknowledge button to trigger alert | **Worker No-motion monitoring:** configurable time window (1 – 30 min, or Off) | **Worker check-in:** configurable check-in period (5 – 180 min)

### Buttons & Indicator Lights

**Power button:** Power on/off | **Acknowledge button:** check-in/Silent Emergency/cancel pending alerts/acknowledge alerts | **Emergency latch:** send emergency alert | **Red indicator light array plus vibration and buzzer:** safety alert triggered | **Green indicator light:** blinking (not connected), continuous (connected)

### User Notification

**Indicators:** Acoustic buzzer, LEDs, and vibration motor | **Acoustic buzzer sound pressure level:** ~90 dB @ 10 cm (3.94")

### Wireless Communication

**Radio:** quad-band GSM/GPRS (850, 900, 1800, 1900 MHz) | **Antenna:** internal quad-band | **Communication:** real-time, bidirectional with firmware upgrade over-the-air | **Voice:** two-way, hands free voice communication

### Location Technology

**GPS Radio:** 20 channel high sensitivity, mobile assisted | **GPS Antenna:** internal Ultimate Sense GPS antenna for weak GPS signal conditions | **GPS Accuracy:** ~5 m (16 ft) outdoors | **Indoor positioning radio:** 2.4 GHz, Loner Beacon compatible | **Loner Beacon resolution:** ~5 m (16 ft) indoors/outdoors | **Real-time location turnaround time:** ~20 seconds

### Alert Messages

Fall Detected, Emergency, Silent Emergency, No-motion, Missed Check-in, Low Battery, Power Off

### Mobile Messaging Methods

Email, text message (SMS)

### Power & Battery

**Rechargeable Li-ion battery:** 1500 mAh capacity | **Battery life:** 25 hours continuous at 20°C (68°F), 15 hours continuous at -20°C (-4°F) | **Charging connector:** 4 pin sealed connection

### Environmental

**Storage temperature:** -30°C to 75°C (-22°F to 167°F) | **Operating temperature:** -30°C to 55°C (-22°F to 131°F) | **Charging temperature:** 0°C to 45°C (32°F to 113°F) | **Ingress Protection:** Designed to meet IP65

### Regulatory Compliance

CE Mark (0682), FCC, IC, EU limits, RoHS, SAR | Contains: FCCID W77BLGSM1, IC 8255A - BLGSM1  
**Certified Intrinsically Safe:** Class I, Division 1, Groups A, B, C and D, Class II, Division 1, Groups E, F and G

### Device Requirements

Activated service plan, GPS/Loner Beacon coverage for locating, and cellular communications

### Warranty

One year limited factory warranty

### Loner Portal Web Application

**Features Include:** Alarm banner, event history, device location mapping, device management, alert & notification settings and more  
**Comprehensive safety alert lifecycle management:** includes alert configuration profiles, safety protocol, and emergency contacts

### Wireless Coverage and Activated Service Plans

Cellular coverage: Service Group A offers over 100 countries, additional countries available

