ORBCOMM™
CONNECTING THE WORLD'S ASSETS

GT 1000

Enhanced Cargo Security and Visibility

Cellular-Enabled Electronic Bolt Seal

ORBCOMM's cutting-edge **GT 1000** cellular-enabled electronic bolt seal sets the standard for cargo security. Co-developed with the world's largest seal company, Tyden Brooks, the GT 1000 is targeted for theft prevention and recovery as well as virtual warehouse and in-transit visibility applications. Using the GT 1000 is as simple as installing a standard physical bolt seal. Fully compliant with ISO Standard 17712 and C-TPAT, the GT 1000 is a flexible cargo tracking, security and condition monitoring device that enables asset positioning through GSM cellular communications, ZigBee and assisted GPS technologies. The bolt and locking cap provide a secure truck or container lock and reliably detect cut or removal in real-time for maximum security.

By utilizing a security padlock in lieu of a locking cap, the cost-effective GT 1000's bolt can be used repeatedly. The device's battery is recharged through the same bolt seal cavity, so the device remains completely sealed. The GT 1000 communicates with a comprehensive web application to provide a versatile asset monitoring solution that features security, supply chain automation, management overview via dashboards, precise measurement against performance metrics and KPIs, and the ability to detect and correct supply chain anomalies in real time. In addition, the GT 1000 supports a secured Authorized Agent Chain-of-Custody scheme similar to Registered mail.

FEATURES

Electronic seal tamper signal transmitted when bolt is removed or cut

Quick, simple installation

Global GSM coverage

Zigbee wireless for communication with other GT devices

Reusable polycarbonate seal body

Fully compliant with ISO/PAS 17712:2003

Interfaces to other ERP, TMS, WMS, and MIS systems

GT 1000 SPECIFICATIONS

Enclosure:	66mm x 91mm x 25mm (2.6" X 3.6" X 1.0")
Mass:	170 g (6 oz. with Batteries)
Sensors	
Temp:	-40C (-104F) to +85C (+185F) Operating
Motion:	Simple motion detection
Vibration/Shock:	3-axis ±18, ±6, ±3 g/axis, Constant Monitoring
Battery:	LI-ION Rechargeable, 2000mAh, 3.6V

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GT 1000 SPECIFICATIONS, continued

Life Expectancy:	127 days at 1 report per day; 74 days at 2 reports per day; 19 days at 1-hour reporting
Door Intrusion:	Seal provides more than 2,000 lbs (907kgs; kN) of pull-out strength; Bolt cutters required for removal
Motion Detection:	Integral motion sensor (Start/Stop); Independent of accelerometer
Coding and Authentication:	Each seal contains unique ID number, electronically hard coded into the seal's data bank
Cellular Communications:	Quad-band GSM for worldwide coverage, 2-way communications upload & download, and GPRS & SMS with automatic least cost routing
GPS Receiver:	Cold Start: <45 seconds, TTFF (95%) Hot Start: <10 seconds, TTFF (95%) <2.5-meter accuracy
ZigBee Wireless LAN:	Communicates with all GT wireless sensors Mesh networking available 2.4 GHz ZigBee Wireless Tx power, max: 1000 mW (USA), 100 mW (Europe), 10 mW (Japan) Tx power, min: 1 mW
Storage:	Stores up to 500 reports if cellular is not available
Compatibility:	Operates with other GT Zigbee-enabled devices
Certifications:	FCC part 15 and part 25,ETSI EN 300 328, ETSI EN 301 489-1, IP (testing)

Embedded Tracking Mode and Standard Tracking

ORBCOMM's **GT 1000** can also be used in an embedded tracking mode where the device is placed inside the container, truck or the cargo itself. In this mode, a "dummy bolt" is placed into the device simply to activate the unit. Because of the GT 1000's small size and powerful capabilities, it is well suited for these types of tracking applications. The GT 1000 can also be used as a standard tracking device when mounted on a truck, container or any other asset through a variety of mounting methods.

Padlock Version with Reusable Bolt Seal

Embedded Version

Charging Stations

Installed