



Car door status detection, car anti-theft Timon

Maximize efficiency. Minimize risks. Manage assets.



WDS

HIGHLIGHTS

WDS is a door sensor, used for remote monitoring of door opening and closing

IT'S RELIABLE

WDS is an ultra-thin and durable high-performance monitoring device designed specifically for anti-theft applications in containers and parking lots. WDS has an integrated Bluetooth receiver for wireless data communication, can communicate with other monitoring devices such as cameras to form a more complete detection system. The external high-performance antenna is suitable for Bluetooth long-distance transmission, giving the product strong performance.

IT'S SIMPLE

No programming skills required; WDS comes with easy to configure application software and an extended AT command set. The report can be triggered regularly and can also respond to events such as opening or closing doors, severe acceleration and braking, and battery status violations. Can send notifications about the opening and closing status of vehicle doors and battery status

IT'S FUNCTIONAL

The WDS interface supports battery and UART input/output. There are two systems, with built-in reed switches and magnets that can detect the status of car doors. A 3-axis accelerometer can achieve motion detection and monitoring of car door behavior, and real-time data can be sent out through Bluetooth broadcasting. The built-in lithium-ion battery of the device can run continuously for up to 10 years.

- LED status indicators for activation and pairing status of devices
- Integrated accelerometer for monitoring vehicle status & driver behavior
- Reed switch used to sense the status of the car door
- Battery used for system power supply
- UART&USB
- Over the air configuration and firmware update
- Extended AT Command set for flexible and easy configuration
- Small size and easy installation
- OPTIONAL FEATURES

The application firmware is flexible and can be customized to be compatible with your existing server at special request.

Spireon Inc.



Specifications:

BATTERY INFORMATION

- Type : Li-ION
- Capacity :3000mAh @ 3V
- Battery Life : In sleep mode, report once a day for a maximum of 7 to10 years.
(Depending on Bluetooth signal strength and number of hourly reports per day)

ENVIRONMENTAL

- Operation Temperature: -30°C to +75°C with Battery
- Storage Temperature: -40°C to +85°C

ELECTRICAL

- Operating Voltage: 2.7V – 3V
- Power Consumption:
 - ✓ Bluetooth pairing : ~ 8mA @ 3V
 - ✓ Bluetooth broadcast package: ~ 6mA @ 3V
 - ✓ Sleep mode : < 5uA @3V

PHYSICAL

- Dimensions: 37.6 x 20.0 x 1.53 mm
- Internal Cellular and GPS Antennas
- Weight : ~11.5g

APPROVALS

- FCC 47
- PTCRB & Carrier Approved

Asiatelco Technologies Inc. (ATEL)

Asiatelco is the leading provider of wireless terminal products to its value customers worldwide. Its innovative products and solutions are widely used for reliable broadband access, IoT/M2M applications and voice communication with 4G LTE, 3G & 2G wireless technologies. ATEL's sales and marketing are globally positioned. It has become globally well-known company in the wireless industry due to its excellent products, solutions and services.. For more information, contact Asiatelco Technologies Inc.

FCC Regulations:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Warning statements

This device complies with Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de

l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible

d'empêcher le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.

Pour se conformer aux exigences de conformité CNR 102 RF exposition, une distance de séparation d'au moins 20 cm doit être maintenue entre l'antenne de cet appareil et toutes les personnes.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada