

SCC TITAN WAVE



SATELLITE-BASED TRACKING WITH INTEGRAL EMERGENCY BUTTON AND TWO WAY TEXT MESSAGING.

The Wave is the latest addition to SCC TITAN's Iridium satellite-based C2 BFT comms solution. It is an IP67 and CE Certified Iridium satellite device, using AES256 encryption. It provides GPS tracking, emergency alerting, IoT sensors and 2-way chat messaging.

The Wave's rugged build quality, field-replaceable battery and resistive touch screen are ideal for in-theatre SOTM (Satcom On The Move).

Tracking

The SCC TITAN Wave operates on the Iridium satellite network, which offers complete global coverage. Robust and versatile, the device can be hand-carried or deployed as a vehicle tracker using the optional vehicle kit. We offer AES-256 bit encryption as standard across Iridium, ensuring the integrity of data. The reporting rate can be changed as required, from 30 second intervals upwards. Waypoint marking and 'checkin' messages are also supported, all controlled through the device's colour LCD screen.

Battery Life

Impressive battery life of best-in-class level allows for prolonged operation away from power sources, even at high reporting rate.

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Emergency Alarm

When the Emergency button is pushed, audible and visual alerts appear on the SCC Platform. Notification of the alarm is also automatically forwarded by SMS and e-mail to nominated recipients and SCC Tactical first responders.

Text Messaging

The Wave provides 2-way chat messaging between the devices and the SCC Platform, device to asset group and device to device. Free text, predefined canned messages and group messaging are supported.

M2M

A machine to machine (M2M) connection is available allowing for remote configuration and advanced monitoring of computer systems via the SCC Platform or SCC Tactical.

SCC Platform

Combine the Wave with tracking, communications and emergency alert software - the SCC Platform - and allow your operators to monitor and manage personnel & assets on a common operating picture. As the SCC Platform is web-based, users can log in securely from anywhere with an Internet connection, whether that be a mobile tablet PC or a sophisticated operations centre.

WAVE IS A PIONEERING TRACKING SOLUTION. THE LATEST HANDHELD GPS SYSTEM OF ITS KIND, IT PROVIDES TRACKING, EMERGENCY ALERT AND TEXT MESSAGING CAPABILITY FOR PERSONNEL AND VEHICLES ANYWHERE IN THE WORLD.



ISO 9001: Certificate No. FM68727
ISO 14001: Certificate No. EM5554313

SCC TITAN WAVE



WAVE SPECIFICATIONS

Mechanical Specifications

Dimensions: 125 mm (158mm including antenna) x 68 mm x 28 mm (35mm including belt clip)

Weight: 300 g

Enclosure: Hard plastic/EMI shielding + soft over-mold for grip

Connectors: USB-C connector (wired for USB 2.0, RS-232, and two GPIO's) with a custom breakout cable available if RS-232 or GPIO's required.

Antennas: Embedded helical for Iridium and patch for GPS

Keys: 7 (Up, Down, Left, Right, Enter, Emergency with red LED, Power with green LED)

Screen: Resistive 240 x 400 color touchscreen

Electrical Specifications

Main Input Voltage: 5.0VDC USB-C, RS-232, 3.0VDC GPIO's

Battery Type: Lithium-ion

Battery Capacity: 2200 mAh, 3.6V nominal

Charging Voltage: 5.0VDC, USB 1.0, USB 2.0

Charging Current: 500mA

Rechargeable Cycles: 500 times

Iridium Transceiver

Operating Frequency: 1616 to 1626 MHz

Duplexing Method: TDD

Multiplexing Method: TDMA/FDMA

Link Margin Downlink: 13 dB average (free space)

Link Margin Uplink: 7 dB average (free space)

GPS Receiver

GPS Receiver: UBlox MAX-M8Q

Receiver Type: L1 (1575.42 MHz), C/A, 72-channel

Update Rate: 18 Hz

Accuracy: 2.5 m CEP (position)

Acquisition: 29 seconds cold-start

1 second hot-start

Sensitivity: -166 dBm (tracking)

-160 dBm (reacquisition)

-148 dBm (cold-start)

-157 dBm (hot-start)

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Environmental Specifications (Electronics)

Operating Temperature: -20°C to 60°C

Operating Humidity: ≤ 90% RH

Storage Temperature: -30°C to 80°C

Storage Humidity: ≤ 90% RH

Environmental Specifications (Battery)

Operating/Discharge Temperature: -20°C to 60°C

Operating Humidity: ≤ 85% RH

Storage Temperature: -20°C to 50°C

Storage Humidity: ≤ 65% RH

Charge Temperature: 0°C to 45°C

Environmental Specifications (Touchscreen)

Operating Temperature: -20°C to 70°C

Operating Humidity Range: ≤ 90% RH

Storage Temperature Range: -30°C to 80°C

Storage Humidity Range: ≤ 90% RH



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