SC2 Gen 3

SUCCORFISH

Data Sheet

The SC2 platform is a proven global tracking and communications solution, evolved into an integrated subsurface and surface connectivity system for the world's most demanding environments. At its core, SC2 Gen 3 enables seamless integration between subsea assets and an intelligent surface node, creating a resilient gateway for secure over-the-horizon communications via satellite and hybrid RF networks. Purpose-built for harsh and remote operations, the platform delivers reliable low-power connectivity, real-time data transfer, and precise positioning where conventional systems fail — from subsea to surface and beyond. SC2 Gen 3 now underpins advanced IoT and M2M deployments, giving operators continuous visibility, control, and situational awareness across globally distributed assets.

BENEFITS

Agile - Compact, lightweight, and easy to deploy, SC2 Gen 3 is designed for rapid installation in challenging environments. Its advanced antenna design ensures reliable performance where other systems cannot operate.

Hybrid Global Connectivity - Combines Iridium satellite with LTE-M and Cat 1 bis networks to provide seamless, global communication. Ensures reliable data transfer across subsea, surface, and remote environments.

Fit and Forget - Engineered for harsh subsea and surface conditions, SC2 Gen 3 delivers durable, low-maintenance performance with extended operational life.

Intelligent Edge Processing - STM32-based edge computing with embedded TinyML enables real-time data processing, anomaly detection, and decision-making directly on the device. Reduces reliance on constant connectivity.

Optimised Power and Data Efficiency - Ultra-low-power architecture and onboard data filtering minimise energy consumption and bandwidth usage. Ideal for long-term deployments in constrained or intermittent communication environments.

Integrated Cloud Platform and API - A secure, cloud-based interface and mobile application suite provide real-time monitoring, configuration, and control. Full API integration enables seamless connectivity with enterprise and third-party systems.

Continuous Visibility and Control - Access live positioning, system status, alerts, and historical data through a unified dashboard, delivering complete operational oversight.

Scalable, Future-Ready Architecture - Designed to evolve with emerging technologies, supporting new connectivity standards, features, and long-term deployment strategies.

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MECHANICAL SPECIFICATION

Dimensions	210 x 95 x 55 mm
Weight	400 grams

POWER PARAMETERS

Input Voltage	5-36V
GSM Transmission	160mA
Iridium Transmission	350mA
Indicator	RGB LED

INTERFACES

BLE 5.0
USB
WiFi

BATTERY

Type	Li-ion
Operational Life	5200mAh
Operational Volatage	3.7V

RADIOS

IRIDIUM SBD
GSM
LoRa

GNSS

GPS (2m Accuracy)
GLONASS

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	**-40°c to 85°c**
Vibration	Milspec 810G
Waterproof	IP67

SECURITY

AES 256 Encryption
Advanced Anti Jamming Suppression
Cable and Enclosure Tamper Alerts

SENSORS

Integration with 3rd party Bluetooth devices
Integration with Succorfish D&T beacons
RS232
9-Axis Accelerometer

Mounting Options

Pole and flat aluminium mounting brackets
Magnetic mounting base

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