

# SC20

HAND-PORTABLE RADIO



**sepura**

Going further in critical communications

# SC20 SERIES

**Resilient, intelligent and durable**, the SC20 Series next generation smart hand-portable radios are designed to tackle today's communications challenges and provide tomorrow's communications solutions

## GLOVE-FRIENDLY OPERATION

Large, tactile press-to-talk key, three side soft keys with haptics and the 'blind find' emergency button make the SC20 Series easy to operate, even with gloved hands

## MISSED EVENT INDICATOR

A blue LED indicates that a call/message has been missed

## DUSTPROOF AND WATERPROOF

IP65/66/67/68 certified, the SC20 Series' ergonomic non-slip case is impervious to water and continuous immersion to a depth of 2m for one hour. Also allows easy cleaning in running water

## UNIQUE NOTIFICATION BAR

Gives rapid access to favourite features, indicates missed calls and messages, and clearly shows changed states, such as speaker mute or transmit inhibit

## INTERCHANGEABLE COLOURED BAR

Allows personalisation of the radio and easy identification

## TOOL-FREE ACCESS

For quick and easy substitution of the SmartCard and MicroSDHC

## RFID TAG

Facilitates access control solutions, tracking of pool-issued radios and potential for integration with back-end systems

## ENHANCED FIDELITY

Along with powerful 2W audio, delivers loud, clear and rich voice communication – even in the noisiest conditions

## STP ACCESSORY RE-USE

The SC20 Series is compatible with all Sepura STP antennas, batteries\* and RAC-based accessories. It is also compatible with Radio Manager 2 and all Sepura crypto management tools\*\*



## UNIQUE WATER PORTING TECHNOLOGY

Expels liquid, protecting the earpiece, speaker and both mics and maintaining clear communication even in heavy downpours

## sRAC CONNECTOR

The sRAC delivers loud, clear audio to drive Sepura's range of high-performance accessories. It is compatible with Sepura STP RAC-mounted accessories

## LARGE, SUNLIGHT-VISIBLE SCREEN

Ideal for use with data-rich apps. Night mode reduces glare in low light

## UNIQUE SMART MENUS

Allow customisable presentation of features and hundreds of soft key functions

## EXPANDED OPERATING BANDWIDTH (136-174MHz, 380-430MHz, 403-470MHz, and 806-870MHz)

Flexibility to use across a range of users' radio applications

## APPSPACE ENABLED

Sepura AppSPACE capable, integrating radios with data applications and third-party systems.

## RUGGED AND SALT RESISTANT

Unique rugged fit-n-lock connector allows rapid data accessory swapping. Connector Protector technology guards against corrosion in salt-laden environments. Resist abrasion with glove-friendly operation, enhanced by haptics.

Shaped by user feedback, the SC20 Series provides intuitive operation and outstanding performance, even in the toughest conditions. Highly versatile, the SC20 Series combines the security and advanced capabilities of TETRA with an optional second high-speed data bearer.

An enhanced apps capability supports interaction with a range of USB and Bluetooth-linked body-worn data accessories, and interactive access to online databases via TETRA or the second high-speed data bearer.

## USER FRIENDLY

The SC20 Series' intuitive user interface utilises three context keys and a smarter menu, making it easy to pick up and use with a minimum of training, whilst remaining familiar to existing Sepura users.

A unique notification bar gives instant access to five favourite features, indicates missed calls or messages, and alerts the user to any changed states, such as speaker mute or transmit inhibit. Customer-defined SmartMenus give swift access to hundreds of soft key features.

The 2.4" high resolution QVGA screen, the largest on any TETRA hand-portable, anticipates increased apps usage and allows for easy viewing in all light conditions, including direct sunlight.

## CLASS-LEADING PERFORMANCE

Powerful 2W audio with enhanced fidelity (EN-FI) technology ensures that voice communication is richer and clearer, even in high noise environments.

Class 3 high-power RF transmission, coupled with exceptional receive sensitivity, gives the SC20 Series extended operational range, stretching coverage into areas where it was not possible before.

## UNPARALLELED ROBUSTNESS

Submersible, waterproof and dustproof, the SC20 Series boasts IP65, 66, 67 and 68 environmental protection ratings along with an easy-clean design that allows it to be rinsed in running water – ideal for use in the most demanding environments, such as mining or even within construction.

**THE SC20 SERIES COMBINES MISSION CRITICAL TETRA VOICE AND DATA WITH A SECOND HIGH-SPEED DATA BEARER IN A TOUGH, APPS-ENABLED, GO-ANYWHERE PACKAGE**

For more information visit [sepura.com/SC20](http://sepura.com/SC20)



\* STP batteries limit the SC20 series to Class 3L RF. New Sepura SC batteries enable the SC20 series to support Class 3RF. Class 3 Support is licence-enabled.  
\*\* Some performance limitations may apply

Unique water-porting technology allows for uncompromised audio clarity, even in continuous, heavy rain; Connector Protector technology guards against corrosive damage in salt-laden environments.

## BROADBAND READY

Designed to meet your communication challenges, now and in the future, the SC20 Series combines TETRA's secure and flexible voice and data communications with an optional second high-speed data bearer. Its

unique modular capability provides flexible licensing paths, keeping pace with advances in data technology and minimising the need for further investment.

Smart interaction with body-worn devices such as Bluetooth connected printers, barcode readers and RFID scanners is supported. Up to 32GB of on-board user storage (if using an SD card) allows rapid access to locally stored, data-centric applications and the creation of mission critical apps using moving mapping.

## TECHNICAL SPECIFICATIONS

### DIMENSIONS

Height: 139mm (exc antenna and rotary)  
Width: 61mm (54mm)  
Depth – standard battery: 32.5mm  
Depth – high-capacity battery: 38mm

### WEIGHT

With standard battery: 241g (exc antenna)  
With high-capacity battery: 266g (excluding antenna)

### TETRA RF PERFORMANCE

RF power:  
MS power Class 3 (2.7W)<sup>1</sup>, Class 3L (1.8W), & Class 4 (1W)<sup>1</sup>  
MSPD power Class 3 (2.7W)<sup>1</sup>, Class 3L (1.8W) & Class 4 (1W)<sup>1</sup>  
DMO repeater power Class 3 (2.7W)<sup>1</sup>, Class 3L (1.8W), & Class 4 (1W)<sup>1</sup>  
RF power customisable for:  
• TMO/DMO/DM-repeater  
• Adaptive power control  
• Receiver class A & B

- Receiver static sensitivity -116dBm (-118dBm typical)
- Receiver dynamic sensitivity -107dBm (-109.5dBm typical)

### AUDIO PERFORMANCE

Speaker audio power: 2W with EN-FI filtering  
Rugged accessory connector (sRAC)<sup>2</sup>  
Water porting technology continually clears water from mic/earpiece & speaker to allow use in constant rain

### ENVIRONMENTAL PERFORMANCE

Operational temperature (conformance tested) -20°C to +60°C  
Operational temperature (min./max.) -30°C to +65°C<sup>3</sup>  
Storage temperature -40°C to +85°C<sup>4</sup>  
Dust & water protection to IP65, IP66, IP67 & IP68  
• IPx5 (weatherproof)  
• IP6x (dustproof)

- IPx6 (waterproof – heavy rain/spraying/water-jet)
  - IPx7 (waterproof – submersible, 1m depth for 30mins)
  - IPx8 (waterproof – submersible, 2m depth for 1 hour)
  - 'Fit for purpose' tested for complete 8hr shifts "in the pouring rain"
- Shock, drop & vibration: ETSI EN 300 019 5M3  
Salt fog: MIL-STD-810G Method 509; duration 24hr salt<sup>5</sup>  
Salt water: submersion, rated at 2m depth for 1hour<sup>5</sup>

1 – New standard (300-01852) & high-capacity (300-01853) batteries, along with the high power Class 3 feature licence, are required to operate the SC20 in high power RF Class 3 mode. Use of older STP batteries will limit SC20 operation to RF Class 3L  
2 – Compatible with Sepura STP9000 & STP8000 RAC-based accessories  
3 – Operating at temperature extremes may limit some aspects of operational performance  
4 – As defined in ETSI EN300 019-2-1 & EN300 019-2-2  
5 – Connector Protector must be enabled in customisation. An antenna, a battery & a Sepura accessory or sRAC cover must be fitted. Rinse in fresh water to prevent salt crystal build-up

For full technical specifications see the SC20 Datasheet or visit [www.sepura.com](http://www.sepura.com)

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