

STP9000

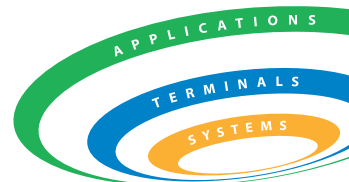
HAND-PORTABLE



The STP9000 is the flagship of a highly innovative series of TETRA hand-portable radios, designed for users who want the best. Waterproof, submersible, dust-proof and marine-hardened, the IP67-rated STP9000 provides the latest smart technology in a 'go anywhere' package.

sepura

Going further in critical communications



STP9000 is a rugged TETRA HAND-PORTABLE

EMERGENCY OPERATION

Easy to locate and with a 'Wake-On-Alarm' feature, the emergency key enhances user safety.

SMA ANTENNA CONNECTOR

Delivers 1.8 Watts of RF power in TMO, DMO and repeater modes. Increases range, thus extending network and direct mode coverage.

NAVI-KNOB™ OPERATION

In combination with the mode key, provides simple and quick access to talkgroups, volume adjustments, user profile selection and status messaging.

RFID TAG

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

LARGE TACTILE PRESS-TO-TALK KEY

Large and glove-friendly, located on the side of the radio.

MAN-DOWN PERSONAL SAFETY

Multi-dimensional motion sensing technology automatically provides man-down detection and reporting option.

PRODUCT DESIGN

The STP9000 leverages the tough technology developed for Sepura's STP8X Intrinsically-Safe series to deliver a market-leading IP67 package, proven to perform in the most demanding operational environments.



Robustness – The STP9000 boasts an IP67 (submersible, waterproof and dustproof) environmental protection rating, which means that it will still function after having been submerged in up to 1m of water for up to 30 minutes. In addition, new Connector Protector technology provides **marine-hardened protection** against the corrosive damage that salt water and salt fog can cause to exposed connectors.



Improved ease of use – The STP9000 provides an enhanced user interface, which offers three different presentation styles, which users can select according to their personal preference:

- Compatibility mode allows existing Sepura users to be immediately familiar with the STP9000.
- Grid and List modes will appear familiar to new users who may be accustomed to user interfaces on smartphones or other GSM devices, rather than a radio.

These new presentation styles lower training costs for both new and existing Sepura users.



Smart keypad and display technology – Following detailed user feedback, Sepura has added 'haptic' technology to the STP9000. Haptics produce a physical movement of the radio, felt through the hand, which confirms to gloved users that the key press has been successful. In addition, the 'Twist and Zoom' feature uses smartphone technology to allow a portrait image to be zoomed to full-screen size, enabling the user to see full detail of an image, such as a missing person, as they rotate the radio. The feature also enables access to details concerning the image.



Resource and information management – Tracking radios, particularly in a pooled system, can be difficult, so the STP9000's **built-in RFID tag** will be of considerable benefit to many users. In addition, the micro SD card slot makes it easy to store and manage data, such as photos, maps, missing person information and hazardous chemical data.

LARGE, SUNLIGHT-VISIBLE, COLOUR DISPLAY

Featuring an enhanced user interface, which offers three presentation styles to suit user preferences.

ERGONOMIC KEYPAD

Large, well-spaced keys, enhanced by haptic technology, which allow the user to feel a key press, even through thick gloves.

POWERFUL AUDIO

Large loudspeaker delivers outstanding audio, even in the noisiest environments.

STPROTECT MODULE

An option which enables use of Sepura's STProtect indoor location and lone worker solution.

BOTTOM CONNECTOR

Featuring Connector Protector technology to provide protection from corrosive salt water and salt fog.

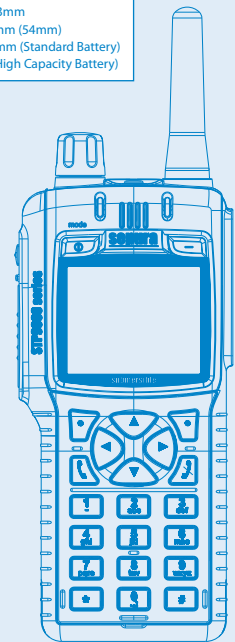





- › **Robust, 'tough technology'** inherited from state-of-the-art development for the STP8X ATEX/IECEX radio
- › **Market-leading IP67** (submersible, waterproof and dustproof) rating
- › High power RF and audio, with **improved full-duplex audio** experience
- › Intuitive, enhanced UI, with **3 presentation styles** (Grid, List and Compatibility modes)
- › **Integral RFID tag** allows rapid asset tracking of pool-issued radios
- › **Fully integrated Bluetooth™** option
- › Enhanced key tactility through **haptic-based technology**
- › **Automatic Man-Down** reporting option
- › **Wake-On-Alarm** activation
- › **Micro-SD** memory card slot
- › **End-to-End encryption** option
- › **DMO Repeater ready** (frequency efficient Type 1A option) with Call Participation
- › A wide range of **market-leading accessories**
- › Supported by Sepura's market-leading software tools, including **Radio Manager 2**

Focused on offering new functional possibilities and removing obstacles to efficient and effective operation, the STP9000 offers a range of benefits that make it **more Reliable, Robust and Secure.**

Dimensions

Height: 133mm
Width: 61mm (54mm)
Depth: 32mm (Standard Battery)
37.5mm (High Capacity Battery)



-  **Enhanced user safety** – In addition to Man-Down, enhanced GPS and STProtect capability, the **Wake-On-Alarm** feature, which enables the STP9000 to be switched on and make an emergency call by pressing the emergency button, also helps to protect users.
-  **Reduced cost of ownership** – The STP9000 is compatible **not only with all audio accessories**, batteries and chargers from Sepura's STP8000 hand-portable range, but also with its market-leading Radio Manager 2 fleet management tool and CMC encryption management suite - all factors which help organisations to maximise the value of existing investments.
-  **Indoor location capability** – An **STProtect module** can be optionally fitted within the radio. This is a key element of the STProtect complete indoor location and lone-worker protection solution. It allows organisations such as prisons, airports and industrial sites to track and protect lone workers, locate employees, control access to restricted areas and ensure pre-defined security patrol routes are being adhered to.

Truly innovative, designed for critical communication users who want the very best TETRA radios.



STP9000

HAND-PORTABLE

DIMENSIONS

Height: 133mm
Width: 61mm (54mm)
Depth: 32mm (Standard Battery)
Depth: 37.5mm (High Capacity Battery)

WEIGHT

With Standard Battery: 250g
With High Capacity Battery: 275g

FREQUENCY BANDS

380-430MHz – STP9038
407-473MHz – STP9040

POWER SUPPLY

7.4V (nominal) Lithium Polymer Battery Packs
Intelligent Reporting Batteries
1160mAh Standard Battery
1400mAh Mid Capacity Battery
1880mAh High Capacity Battery

RF PERFORMANCE

RF Power – MS Power Class 3L (1.8 Watts)
RF Power – customisable for:
TMO/DMO/Repeater
Adaptive Power Control Supported
Receiver Class – A and B
Receiver Static Sensitivity – 112dBm (typical)
Receiver Dynamic Sensitivity – 103dBm (106dBm typical)

PRODUCT PERFORMANCE

Audio Power – >1 Watt
Operational Temperature (Conformance tested)
-20°C to +60°C
Operational Temperature (Min/Max)
-30°C to +70°C⁴
Storage Temperature -40°C to +85°C¹
Dust & Water Protection IP67
(waterproof, submersible and dustproof)
Shock, drop & vibration ETS 300 019
Salt fog: MIL810E 509.4(I); duration 24hr salt⁵
Salt water: submersion, rated at 1m depth for 30 minutes⁵

RFID PERFORMANCE:

Internal tag – HITAG S2048, short range, 125KHz, ISO11784 and ISO11785 compliant
Range: 1 cm from back of individual radio box pack
User accessible storage – 512 bits, pre programmed (user can overwrite):
32 bit unique identifier
Serial number
Hardware code
TEI

PRODUCT OPTIONS

GPS
Bluetooth⁶
Man-Down Alarm³
DMO Repeater Type 1A
Air Interface Encryption Options
End to End Encryption Options
Wide Range of Languages supported
STProtect – in-building tracking solution⁶

DISPLAY AND USER INTERFACE

Large 30x38mm Active LCD Area
Hi-Resolution display (176 x 220 pixels)
Transflective TFT Display, 262K colours
Normal, Large & Very Large Mode Text
18 Configurable Feature Activation Keys
Vibrate Call/message
Call History
Phone Book (2000 entries)
9900 Talkgroups in TMO/DMO
5000 Multi-Level Talkgroup Folders
Intelligent Search Facility
Quick Groups
Transmit Inhibit with on/off Status Messaging
Fixed & definable Scan Lists
Remaining Charge Time Indication
Missed Call Indicator
Intuitively-enhanced user interface
Choice of three user interface presentation styles (Compatibility mode, Grid mode and List mode)
Haptic technology to enhance key tactility when used with heavy gloves
Twist and zoom portrait image viewer
Auto-capitalisation during SDS text entry

VOICE SERVICES

Full Duplex Calls (to MS and PABX/PSTN)
Half Duplex Calls (Individual and Group)
Priority Call
Emergency Call (Pre-emptive Priority)
Intelligent Alarm Reporting
Talking Party Identity
Calling Line Identity Presentation
DTMF Dialling
MSISDN Dialling
Abbreviated Dialling
Dynamic Group Number Assignment
Background (hidden) Groups
DMO Individual Call
DMO Group Call
DMO Emergency Call
DMO Intelligent Emergency Call
Independent Volume Control

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
SDS Messaging (in TMO & DMO)
Auto – capitalisation on SDS text entry
Concatenated SDS messaging
Multi-slot packet data
Circuit mode data
TETRA paging and call out
WAP browsing
Short Data Applications (SDAs)
Image & map storage on memory card
Lone-Worker feature
Missed event application

LOCATION BASED SERVICES

GPS integrated option -192dBw (-162dBm) tracking sensitivity
Over-The-Air GPS reporting using the following protocols
• ETSI location standard reporting (LIP)
• NMEA & Sepura compact messaging
GPS-based compass
Enhanced indoor start-up and acquire through 'predicted ephemeris'
Bluetooth Location System compliant
STProtect
RFID tag equipped

SECURITY SERVICES

Authentication
Class 1, 2 and 3 and 3G TETRA Security
Air Interface Encryption
TEA1/2/3/4 Supported²
Smart Card E2E Encryption Support²
Embedded E2E Encryption Support²
In-Country E2E Encryption Algorithm Support²
Multiple E2E Algorithm Support²

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO Voice Repeated
DMO Tone Signalling Repeated
Group Status & SDS Repeated
Type 1A Efficient Operation over one RF Channel
Presence Signal Support
Emergency Call
Monitoring & Participation in Calls

CONNECTIVITY

TETRA voice and data
Bluetooth support for voice and data (PEI)
PEI Data via RS232 and USB data cables
Accessory connections via Rugged Accessory Connector (RAC)
High speed interface for feature-rich audio and data connection via facility connector
MicroSD card slot
RFID tag
STProtect

ACCESSORIES

Personal Charger
Vehicle DC Charger
1+1 Desktop Charger
6+6 Desktop Charger
12 and 24 Way Battery only Chargers
Wide Range of Antennas
Stud and Belt Attachments
Rugged Belt Clip
Rugged and Soft Leather Cases
Basic IP55 Remote Speaker Microphone
Advanced Remote Speaker Microphone (with and without RF Antenna)
Hands-Free Kit
Personal Ear Pieces
Public Order Accessories
Semi-Covert Accessories
Feature-rich Car Kit
Basic Car Kit
Serial and USB Data Leads
4 & 8 Way Programming Pods

1 – As defined in ETSI EN300 019-2-1 and EN300 019-2-2.

2 – Availability is subject to export licence.

3 – The Man-Down Alarm should in no way be regarded as a substitute for compliance with appropriate risk assessment and other safety procedures and practices. To enable Man-Down a Software License is also required.

4 – Operating at temperature extremes may limit some aspects of operational performance.

5 – 'Connector protector' must be enabled in customisation. An antenna, a battery and either an accessory or the STP9000 series RAC cover must be fitted.

6 – Bluetooth and STProtect hardware options cannot both be fitted at the same time.

Sepura's policy is to continually improve its products and services. The features and facilities described in this document were correct at publication, but are subject to change without notice.

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