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.
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.
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

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.

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.

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 (10dBm typical)

PRODUCT PERFORMANCE
Audio Power – >1 Watt
Operational Temperature (Conformance tested)
-20°C to +60°C
-30°C to +70°C
Storage Temperature –40°C to +85°C
Dust & Water Protection IP67
(waterproof, submersible and dustproof)
Shock, drop & vibration ETS 300 019
(Waterproof, submersible and dustproof)

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
Bluetooth®
Man-Down Alarm®
DMO Repeater Type 1A
Air Interface Encryption Options
End to End Encryption Options
Wide Range of Languages supported
STProtect – in-building tracking solution

DISPLAY AND USER INTERFACE
Large 30x38mm Active LCD Area
Hi-Resolution display (176 x 220 pixels)
Transmissive 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 Dailing
MSISDN Dailing
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 Supported
Smart Card E2E Encryption Support
Embedded E2E Encryption Support
In-Country E2E Encryption Algorithm Support
Multiple E2E Algorithm Support

DMO REPEATER SERVICES (LICENCE REQUIRED)
DMO Voice Repeated
DMO Tone Signalling Repeated
Group Status & SDS Repeated
TEA1 Intelligent 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
Std 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 Car 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.
4 - To enable Man-Down a Software License is also required.
5 - Operating at temperature extremes may limit some aspects of operational performance.
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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