The STP9000 is the flagship of a highly innovative series of TETRA hand-portable radios (comprising of the STP9000, STP9100 and STP9200), designed for users who want the best. Waterproof, submersible, dust-proof and marine-hardened, the IP67-rated STP9000 provides 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.

Enhanced user safety – The STP9000 features a wide range of features to enhance user safety. In addition to lone-worker, 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 simply pressing the emergency button, also helps to protect users.
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

Enhanced key tactility through haptic-based technology

Man-Down automatically summons assistance

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

Smart building blocks - adding advanced WAP and MicroSD card functionality allows users to ‘build’ smart solutions to meet operational challenges

A wide range of market-leading accessories, designed for a wide range of public safety, industrial and other users

Supported by Sepura’s market-leading software tools, including Radio Manager 2 which helps organisations to lower cost of ownership by making fleet re-programming easier

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.

Smart technology – Sepura has provided a host of “smart” features which allow organisations to maximise their efficiency and enhance their operations. These include:

Short data applications - Short data applications (SDAs) allow the user to simply and intelligently interact with a back-end IT system. Built and deployed on Radio Manager 2, SDAs allow the automation of work flows, job allocation and remote control capabilities. They also allow the user to rapidly access a remote database. SDAs have been demonstrated to improve the effectiveness of users, thus saving organisations valuable time and money.

MicroSD card - Complete WAP sites can now be encrypted and stored on the MicroSD card conveniently and quickly via Radio Manager 2. For the first time users can access up to 4GB of data, images and text, organised into a convenient and intuitive WAP site. SDS text messages can now contain URL shortcuts that takes the user directly to data on the local WAP site stored on the SD card, or to a back-end WAP site accessed via TETRA. These powerful features allow the rapid dissemination of data to targeted users, such as missing person information.
5 – Connector Protector must be enabled in customisation. An antenna, a battery & either an accessory or the STP9000 series RAC cover must be fitted. Lightly rinse in fresh water after salt exposure to prevent salt crystal build up.

3 – The Man-Down alarm should in no way be regarded as a substitute for compliance with appropriate risk assessment & other safety procedures & practices.

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

344-400MHz – STP9035
380-430MHz – STP9038
407-473MHz – STP9040
806-870MHz – STP9080

POWER SUPPLY

7.4V (nominal) lithium polymer battery packs
1160mAh standard 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
Receiver class A & B
Receiver static sensitivity -112dBm (-115dBm 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 +65°C
Storage temperature -40°C to +85°C
Dust & water protection to both IP67 & IP66
Salt water: submersion, rated at 1m depth for 30 minutes

RFID PERFORMANCE

Internal tag: HITAG S2048, short range, 125KHz
External tag: passive 125KHz RFID tag

VOICE SERVICES

Full duplex calls (to MS and PABX/PSDN)
Half-duplex calls (individual & 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
Ambience listening
Privacy mode
Whisper mode
Group focus
DMO individual call
DMO group call
DMO emergency call
DMO intelligent emergency call
Independent volume control
Gateway pairing

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DM0)
SDS messaging (in TMO & DM0)
Auto-capitalisation in SDS text entry
Concatenated SDS messaging
Multi-slot packet data
TETRA paging and call out
WAP browsing
WAP shortcuts in SDS
WAP sites stored on MicroSD card
Battery status advised on start-up
Short data applications (SDAs)
WAP sites, images, maps & text stored on MicroSD card via Radio Manager

LOCATION BASED SERVICES

GPS integrated option -192dBw (-162dBi) 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 ‘predictive ephemeris’
RFID tag equipped

SECURITY SERVICES

Authentication
Class 1, 2 and 3 & 3G TETRA Security
Voice services
Air Interface encryption
TETRA/2/3/4 supported
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
Type 1A efficient operation over one RF Channel
Presence signal support
Emergency call
Monitoring & participation in calls

CONNECTIVITY

TETRA voice & data
PEI Data via RS232 and USB data cables
Accessory connections via rugged accessory connector (RAC)
High-speed interface for feature-rich audio accessories
Audio & data connection via facility connector
MicroSD card slot (4GB max)
Passive 125KHz RFID tag

ACCESSORIES

Personal charger
Vehicle DC charger
1+1 desktop charger
6+6 desktop charger
12- & 24-way battery-only chargers
Wide range of antennas
Stud & belt attachments
Rugged belt clip
Rugged & soft leather cases
Basic IP55 remote speaker microphone
Advanced IP55 remote speaker microphone (with & without RF Antenna)
Hands-free kit
Personal ear pieces
Public order accessories
Semi-covert accessories
Feature-rich & basic car kits
Serial & USB data leads
Four- & eight-way programming pods
Two-way, battery-only, charger for vehicles

1 – As defined in ETSI EN300 019-2-1 & 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 & other safety procedures & practices.
4 – Operating at temperature extremes may limit some aspects of operational performance
5 – Connector Protector must be enabled in customisation. An antenna, a battery & either an accessory or the STP9000 series RAC cover must be fitted. Lightly rinse in fresh water after salt exposure to prevent salt crystal build up.

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.