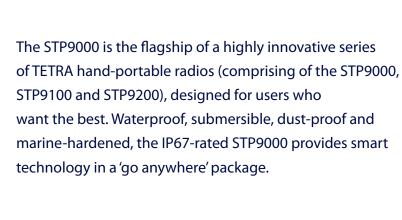
STP9000

HAND-PORTABLE







Going further in critical communications

STP9000 is a rugged TETRA HAND-PORTABLE

NAVI-KNOB™ OPERATION

In combination with the mode key, provides simple and quick access to talkgroups, user profile selection and status messaging as well as simply adjusting the volume

EMERGENCY OPERATION

Easy to locate, protected from accidental operation, but simple to activate in a real emergency.

Now with a "wake-on-alarm" feature allowing users to summons assistance even if the STP is switched off

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

MISSED EVENT INDICATOR

<u>sepura</u>

A blue LED indicates that a call/ message has been missed. The soft key next to the LED can be configured to display a list of missed calls/messages

RFID TAG

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

LARGE TACTILE PRESS-TO-TALK KEY

Large, easy to find and glove-friendly

MAN-DOWN PERSONAL SAFETY

Multi-dimensional motion sensing technology automatically provides man-down detection and summons assistance

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



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.



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:

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.

- 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.



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.

LARGE, SUNLIGHT-VISIBLE, COLOUR DISPLAY

Featuring an enhanced user interface, which offers three presentation styles to suit user preferences. Dual illumination technology ensures screen clarity under all light conditions

SEPURA PICTURE MESSAGE

Allows the radio to securely receive images and any associated text, permitting simultaneous distribution to multiple user groups via SDS

RUGGED ACCESSORY CONNECTOR

Ensures a reliable connection with a wide range of audio accessories

SMART MENU

Customer-defined smart menus give intuitive access to hundreds of soft key features

ERGONOMIC KEYPAD

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

POWERFUL AUDIO

Large loudspeaker delivers outstanding audio, even in the noisiest environments

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
- 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 marketleading software tools, including Radio Manager 2 which helps organisations to lower cost of ownership by making fleet re-programming easier

Highly innovative, designed for critical communication users who demand the very best TFTRA radios









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 backend WAP site accessed via TETRA. These powerful features allow the rapid dissemination of data to targeted users, such as missing person information.

STP**900**(HAND-PORTABLE

DIMENSIONS

Height: 133mm Width: 61mm (54mm)

Depth: 32mm (standard battery) Depth: 37.5mm (high-capacity battery)

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 Intelligent reporting batteries 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°C⁴

Storage temperature -40°C to +85°C Dust & water protection to both IP67 & IP65 (waterproof, submersible, sprayproof & dustproof) plus tested for complete 8hr shifts "in the pouring rain"

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 & ISO11785 compliant Range: 1 cm from back of individual

radio box pack

User accessible storage: 512 bits, passive technology pre-programmed (user can overwrite):

32 bit unique identifier Serial number

Hardware code

PRODUCT OPTIONS

GPS

Man-Down alarm³

DMO repeater type 1A Air Interface encryption options End-to-end encryption options Wide range of languages supported Coloured bezels Smart card support

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 16 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, grid and list modes)

Haptic technology to enhance key tactility when

used with heavy gloves Twist and Zoom portrait image viewer

Auto-capitalisation in SDS text entry

Two context keys Wake on Alarm

Sepura Picture Message

Smart menu

VOICE SERVICES

Full duplex calls (to MS and PABX/PSTN) 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 & DMO) SDS messaging (in TMO & DMO) 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 Manager2

Lone-Worker feature Missed event application User-expandable up to 4GB via MicroSD card Up to 30 guick status messages

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

'predictive ephemeris' RFID tag equipped

SECURITY SERVICES

Authentication Class 1, 2 and 3 & 3G TETRA Security Air Interface encryption TEA1/2/3/4 supported² Smart card E2E encryption support² Embedded E2E encryption support 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 & data

PEI Data via RS232 and USB data cables

Accessory connections via rugged accessory connector

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.
- To enable Man-Down a software licence 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 & 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.







