

# STP9200

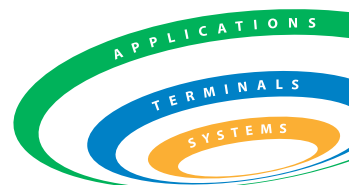
HAND-PORTABLE



An entry-level TETRA radio offering powerful audio and RF, extreme ruggedness and simplicity of use. Certified to IP67 with Connector Protector™ technology, the STP9200 truly is a 'go-anywhere' radio: waterproof, submersible, dust-proof and marine-hardened.

**sepura**

Going further in critical communications



# STP9200 is a rugged TETRA HAND-PORTABLE

## 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 summon assistance even if the STP is switched off

## NAVI-KNOB™ OPERATION

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

## 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

## PRODUCT DESIGN

The STP9200 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

## 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

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



**Robustness** – The STP9200 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.



**Reduced cost of ownership** – The STP9200 is compatible not only with all audio accessories, batteries and chargers from the STP9000 and STP8000 hand-portable ranges, but also with the Radio Manager 2 fleet management tool and CMC encryption management suite, enabling you to maximise the value of your existing investment.



**Improved ease of use** – The STP9200 provides a reduced keypad and 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 STP9200.
- Grid and List modes will appear familiar to new users who may be accustomed to user interfaces on smartphones or other GSM devices.

Together, the presentation styles mean that organisations, whether existing Sepura users or new users, **will minimise training costs.**

**SUNLIGHT-VISIBLE DISPLAY**

Featuring an enhanced user interface, with a choice of three presentation styles. Dual illumination technology ensures 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, ideal for use with gloved hands

**POWERFUL AUDIO**

Large loudspeaker delivers outstanding audio, even in the noisiest environments

**MAN-DOWN PERSONAL SAFETY**

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

**BOTTOM CONNECTOR**

Featuring Connector Protector technology to provide protection from 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 **three presentation styles** (grid, list and compatibility)
  - › **Integral RFID tag** allows rapid asset tracking of pool-issued radios
  - › **Man-Down** automatically summons assistance in an emergency
  - › **Wake-On-Alarm** activation
  - › **End-to-End encryption** option
- › **DMO Repeater ready** (frequency efficient Type 1A option) with call participation
  - › 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 simplifies fleet re-programming, helping to lower the cost of ownership
- Focused on offering new functional possibilities and removing obstacles to efficient and effective operation, the STP9200 offers a range of benefits that make it more **Reliable, Robust and Secure**.



A tough and powerful TETRA radio offering essential features at a competitive price



- ✓ **Operational efficiency** – Innovative hardware design blocks out background noise, whilst advanced audio equalisation technology provides a **superior full-duplex audio experience**.
- ✓ **Resource and information management** – Tracking radios, particularly in a pooled system, can be difficult, so the STP9200's **built-in RFID tag** will be of considerable benefit to many users.
- ✓ **Enhanced user safety** – The STP9200 features a wide range of features to enhance user safety. In addition to lone worker, Man-Down and enhanced GPS, Wake-On-Alarm enables the STP9200 to be switched on and an emergency call made simply by pressing the emergency button.

- ✓ **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, which allow the user to simply and intelligently interact with a backend 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, saving organisation valuable time and money.

# STP9200

## 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 – STP9235  
380-430MHz – STP9238  
407-473MHz – STP9240  
806-870 MHz – STP9280

### 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/REP  
Adaptive power control supported  
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 +70°C<sup>4</sup>  
Storage temperature -40°C to +85°C<sup>1</sup>  
Dust and water protection to both IP67 & IP65 (waterproof, submersible, sprayproof & dustproof), plus tested for complete eight hour shifts "in the pouring rain"  
Shock, drop & vibration ETS 300 019  
Salt fog: MIL810E 509.4(I); duration 24hr salt<sup>5</sup>  
Salt water: submersion, rated at 1m depth for 30 minutes<sup>5</sup>

### PRODUCT OPTIONS

GPS  
Man-Down alarm<sup>3</sup>  
DMO repeater Type 1A  
Air Interface encryption options  
End-to-end encryption options  
Wide range of languages supported  
Coloured bezels  
Smartcard support

### 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  
TEI

### DISPLAY AND USER INTERFACE

Active LCD area 37mm x 19 mm, with 128 x 64 resolution  
High visibility monochrome display  
Call history  
Seven configurable feature activation keys  
Phonebook (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, list and grid)  
Wake-on-Alarm function  
Sepura Picture Message  
Smart menu

### VOICE SERVICES

Full duplex calls (to MS & PABX/PSTN)<sup>6</sup>  
Half-duplex calls (individual & group)<sup>6</sup>  
Priority call  
Emergency call (pre-emptive priority)  
Intelligent alarm reporting  
Talking party identity  
Calling line identity presentation  
DTMF dialling from address book<sup>7</sup>  
MSISDN dialling  
Abbreviated dialling  
Dynamic group number assignment  
Background (hidden) groups  
Ambience listening  
Privacy mode  
Whisper mode  
Group focus  
DMO individual call<sup>7</sup>  
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)<sup>7</sup>  
Concatenated SDS messaging<sup>7</sup>  
Multi-slot packet data  
Circuit mode data  
TETRA paging & call out  
Battery status advised immediately on start-up  
Short Data Applications (SDAs)  
Lone-Worker feature  
Missed event notification  
Up to 30 quick 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, 3 & 3G security  
Air interface encryption  
TEA1/2/3/4 Supported<sup>2</sup>  
Smartcard E2E encryption support<sup>2</sup>  
Embedded E2E encryption support<sup>2</sup>

### 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  
Passive 125KHz RFID tag

### ACCESSORIES

Personal charger  
Vehicle DC charger  
1+1 desktop charger  
6+6 desktop charger  
12- and 24-way battery-only chargers  
Two-way, battery-only charger for vehicles  
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

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 licence is also required

4 – Operating at extreme temperatures 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. Lightly rinse in fresh water after salt exposure to prevent salt crystal build-up

6 – Through use of Sepura pseudo-keypad. Chinese text entry not supported

7 – Selectable from phonebook or incoming call list

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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