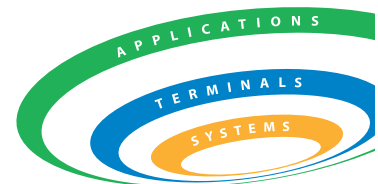# STP**9200**

HAND-PORTABLE

The STP9200 is the entry-level TETRA radio which offers the essential features that a user requires: powerful audio and RF, extreme ruggedness and simplicity of use. With an IP67 rating, this is truly a "go anywhere" radio; waterproof, submersible, dust-proof and marine-hardened.

sepura

Going further in critical communications

APPLICATIONS

TERMINALS

SYSTEMS

STP**9200** is a rugged TETRA HAND-PORTABLE

EMERGENCY OPERATION

Easy to activate 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 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.

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.

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 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 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, which offers three presentation styles to suit user preferences.

ERGONOMIC KEYPAD

Large, well-spaced keys, which allows simplicity of operation.

POWERFUL AUDIO

Large loudspeaker delivers outstanding half-duplex audio.

MAN-DOWN PERSONAL SAFETY

Multi-dimensional motion sensing technology automatically provides Man-Down detection and reporting option.

BOTTOM CONNECTOR

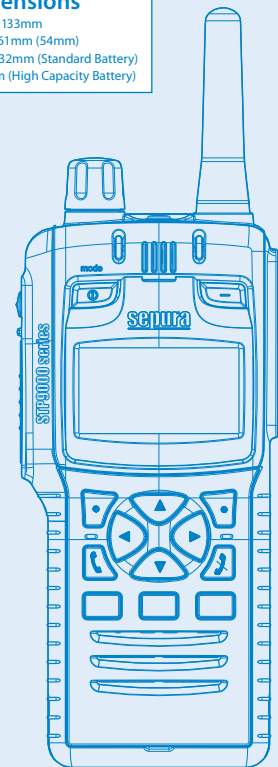Featuring connector protector™ technology to provide protection from salt water and salt fog.

❯ **Robust, 'tough technology'** inherited from state-of-the-art development for the STP8X ATEX/IECEX

❯ **Market-leading IP67** (submersible, waterproof and dustproof) rating

❯ High power RF and audio, with **improved full-duplex audio capability**

❯ Intuitive, enhanced UI, with **3 presentation styles** (Grid, List and Compatibility)

❯ **Integral RFID tag** allows rapid asset tracking of pool-issued radios

❯ **Automatic Man-Down** reporting option

❯ **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**

❯ Supported by Sepura's market-leading software tools, including **Radio Manager 2**

Focussed 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**.

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

✓ **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 – In addition to the Man-Down feature and enhanced GPS, the **Wake-On-Alarm** feature, which enables the STP9200 to be switched on and make an emergency call by pressing the emergency button also helps to protect users.

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

RFID

STP**9200**

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 – STP9238
407-473MHz – STP9240

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 and 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°C4
Storage Temperature -40°C to +85°C1
Dust & water protection IP67 (submersible,
waterproof and dustproof)
Shock, drop & vibration ETS 300 019
Salt fog: MIL810E 509.4(I); duration 24hr salt[5]
Salt water: submersion, rated at 1m depth
for 30 minutes[5]

PRODUCT OPTIONS

GPS
DMO Repeater Type 1A
Air Interface Encryption Options
End-to-End Encryption Options
Man-Down Alarm[3]
Smartcard Support

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
Passive Technology

DISPLAY AND USER INTERFACE

Active LCD area 37mm x 19 mm, with
128 x 64 resolution
High visibility monochrome display
Call history
8 configurable soft 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 mode, List mode and Grid mode)
Wake-on-alarm function
DTMF dialling from address book
Ambiance listening
Privacy Mode
Whisper Mode
Group Focus

VOICE SERVICES

Full duplex calls (to MS and PABX/PSTN)[6]
Half duplex calls (Individual and Group)[6]
Priority call
Emergency call (pre-emptive priority)
Intelligent alarm reporting
Talking party identity
Calling line identity presentation
MSISDN dialing
Abbreviated dialing
Dynamic group number assignment
Background (hidden) groups
DMO individual call
DMO group call
DMO emergency call
DMO intelligent emergency call
Independent volume control
Enhanced full duplex ear sealing
Independent Volume Control

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
SDS Messaging (in TMO & DMO)[7]
Concatenated SDS messaging[7]
Multi-slot packet data
Circuit mode data
TETRA pager and call out
Short Data Applications (SDAs)
Lone-Worker feature

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'

SECURITY SERVICES

Authentication
Class 1, 2 3 and 3G security
Air interface encryption
TEA1/2/3/4 Supported[2]
Smartcard E2E encryption support[2]

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
PEI Data via RS232 and USB data cables
Accessory connections via Rugged
Accessory Connector (RAC)
High speed interface for feature-rich
audio accessories
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
Wide range of antennas
Stud and belt attachments
Rugged belt clip
Rugged and 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 car kit
Serial and USB data leads
4- & 8-way programming pods
Basic car kit

---

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 – 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.

sepura

RFID