

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

380-430MHz – STP9238
 407-473MHz – STP9240

POWER SUPPLY

7.4V (nominal) Lithium Polymer Battery Packs
 Intelligent Reporting Batteries
 1260mAh 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 509.4¹; duration 24hr salt⁵
 Salt water: submersion, rated at 1m depth for 30 minutes⁵

PRODUCT OPTIONS

GPS
 DMO repeater type 1A
 Air interface encryption options
 End-to-End encryption options
 Wide range of languages & keymats
 Man-Down alarm³
 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
 TE
 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

DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)
 SDS Messaging (in TMO & DMO)⁷
 Concatenated SDS messaging⁷
 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 Supported²
 Smartcard E2E encryption support²

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO voice repeated
 DMO tone signaling 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.



STP9200

HAND-PORTABLE



The STP9200 is a key element of Sepura's flagship STP9000 series. It is an entry-level TETRA radio which offers the essential features that users require; extreme ruggedness, powerful audio and RF, marine hardening and simplicity of use.

ROBUST

Waterproof, submersible, dust-proof and marine-hardened, the STP9200 has the design and construction values that enable it to withstand the most harsh and challenging environments. Its **IP67 environmental protection rating** and Connector Protector technology, to counter the potential corrosive damage from salt water and salt fog, mean that the STP9200 can be used in a huge range of wet, salt-laden and dusty environments.

EASY TO USE

The STP9200 provides an enhanced user interface, uniquely offering **three different presentation styles**, which users can select according to their personal preference, thus reducing training costs and improving choice. The reduced keypad on this model also helps simplify operation.

OPERATIONAL EFFICIENCY

The innovative hardware design of the STP9200 blocks out background noise, whilst its enhanced audio equalisation technology provides a radically **enhanced full-duplex telephony audio** experience.

STP9200 HAND-PORTABLE:

- 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.

The STP9200 takes the entry level TETRA hand-portable market into a new league. Designed to offer essential functionality coupled with extremely robust hardware, it meets a truly wide range of the requirements which reflect the ever-increasing demands and requirements of users worldwide. The new features, coupled with the new styling, also give the STP9200 a highly contemporary look and feel.

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:**

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.

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.**

Operational efficiency – Innovative hardware design blocks out background noise, whilst advanced audio equalisation technology provides a **superior full-duplex audio experience.**

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.

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.

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.

