

STP9200

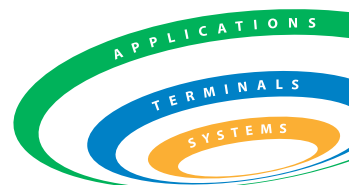
HAND-PORTABLE



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.

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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 +65°C⁴
Storage temperature -40°C to +85°C¹
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 salt⁵
Salt water: submersion, rated at 1m depth for 30 minutes⁵

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
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)⁶
Half-duplex calls (individual & group)⁶
Priority call
Emergency call (pre-emptive priority)
Intelligent alarm reporting
Talking party identity
Calling line identity presentation
DTMF dialling from address book⁷
MSISDN dialling
Abbreviated dialling
Dynamic group number assignment
Background (hidden) groups
Ambience listening
Privacy mode
Whisper mode
Group focus
DMO individual call⁷
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)⁷
Concatenated SDS messaging⁷
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 Supported²
Smartcard E2E encryption support²
Embedded E2E encryption 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 (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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