

STP8200 HAND-PORTABLE

Sepura's STP8200 Hand-Portable combines ruggedness and high performance with a streamlined user interface. The STP8200 has been designed to offer a cost beneficial solution to a cross section of users, ranging from traditional voice only PMR, right through to those who require enhanced personal safety and information security.

TOUGH

The STP8200 has been designed to perform in the most physically challenging environments where users demand ruggedness and durability. In addition, the radio offers excellent water and dust resistance.

HIGH PERFORMANCE

The STP8200's RF power is fully customisable up to 1.8 Watts in TMO, DMO and when used as a DM Repeater, delivering reliable communications when most needed. Coverage is extended beyond the reach of typical hand-held radios.

STP8200 also has the largest front-facing loudspeaker available in a TETRA hand-portable; it provides powerful, clear audio and alerting, even in the noisiest environments.

FEATURE-RICH

The STP8200 boasts a comprehensive set of features and options, including GPS and Man-Down functionality - both improving user safety, secure encryption to ensure information remains confidential and extensive data service support. These can be exploited now and in the future, to improve efficiency and reduce operational costs.



EMERGENCY OPERATION
THE EMERGENCY KEY IS LOCATED ON THE TOP OF THE RADIO IN A RECESS BETWEEN THE NAVI-KNOB™ AND THE ANTENNA - FACILITATING EASE OF ACTIVATION AND ENHANCING USER SAFETY

SMA ANTENNA CONNECTOR
DELIVERS 1.8 WATTS OF RF POWER IN TMO, DMO AND REPEATER MODES. INCREASES RANGE BY UP TO 20% WHEN COMPARED TO STANDARD TETRA HAND-HELDS, EXTENDING NETWORK AND DIRECT MODE COVERAGE.

NAVI-KNOB™ OPERATION
WHEN USED IN COMBINATION WITH THE MODE KEY, PROVIDES QUICK ACCESS TO TALK GROUPS, VOLUME ADJUSTMENTS, STATUS MESSAGING, TEXT ENTRY AND PROFILE SELECTION.

GPS OPTION
INTEGRAL SENSITIVE GPS ALLOWS MANAGEMENT TO EFFICIENTLY ALLOCATE RESOURCES AND TRACK USERS IN AN EMERGENCY OR WHEN 'MAN DOWN' ACTIVATED.

MISSED EVENT INDICATOR
A BLUE LED INDICATES THAT A CALL OR MESSAGE HAS BEEN MISSED.

LARGE TACTILE PRESS-TO-TALK KEY
LOCATED ON THE SIDE OF THE RADIO IMMEDIATELY BELOW A SOFT KEY, TYPICALLY USED AS A "CALL CLEAR" FUNCTION WHEN WEARING THE RADIO ON THE BELT.

CLEAR MONOCHROME DISPLAY
CRYSTAL CLEAR VIEWING IN ANY ENVIROMENT.

ERGONOMIC KEYS
LARGE, WELL-SPACED KEYS, TO ENSURE EASY, ACCURATE, OPERATION - EVERY TIME.

FEATURE ACTIVATION KEYS
CUSTOMISABLE FROM RADIO MANAGER, PROVIDE INSTANT ACCESS TO FREQUENTLY USED FEATURES VIA A SINGLE KEY PRESS.

POWERFUL AUDIO
THE LARGE LOUDSPEAKER DELIVERS LOUD, CLEAR AUDIO, EVEN IN THE NOISIEST ENVIRONMENTS.

MAN-DOWN PERSONAL SAFETY OPTION
MULTI-DIMENSIONAL MOTION SENSING TECHNOLOGY IS USED TO AUTOMATICALLY PROVIDE MAN DOWN DETECTION AND REPORTING.

DMO REPEATER OPTION
UNIQUE ON SEPURA HANDHELD, COVERT AND GATEWAY RADIOS. 'REPEATS' DIRECT MODE VOICE AND DATA TRAFFIC, EXTENDING GEOGRAPHICAL COMMUNICATION RANGE BETWEEN PARTICIPATING RADIOS.

PRODUCT DESIGN
WITH IP54 CERTIFIED, BUT TESTED FAR BEYOND. AN INTERNAL METAL CHASSIS AND TOUGHENED PLASTIC CASING, THE STP8200 HAS BEEN DESIGNED TO PERFORM IN THE MOST DEMANDING OPERATIONAL ENVIRONMENTS.



The STP8200 is a rugged TETRA Hand-Portable

STP8200 Hand-Portable:

- Rugged
- High Power RF and Audio
- Fully integrated, ultra-sensitive, GPS option
- Automatic Man-Down reporting option
- Air Interface Encryption information security options.
- Smart Card based End-to-End encryption requires only a software upgrade for activation²
- DMO Repeater ready (frequency efficient Type 1A option) with Call Participation
- A wide range of market leading 8000 series accessories
- Supported by Sepura's market-leading software tools, including Radio Manager allowing cost effective fleet management via remote programming and diagnostics

The STP8200 Hand-Portable is a rugged TETRA hand-portable radio designed and built to industry standard IEC529 IP54, but tested far beyond. It withstands day to day use in some of the harshest environments in the transport, utility, campus, public safety and military markets.

The side audio connector provides a rugged screw-down feature offering the best functionality available. A comprehensive range of 8000 series audio accessories is available offering unique solutions to common operational requirements, most notably a Remote Speaker Microphone with integral antenna.

Feature-rich TETRA radios

The STP8200 Hand-Portable offers a display area of 4 lines of 14 characters. The wide viewing angle and crystal clear Monochrome display allows users to view the display in all lighting conditions, from harsh and direct sunlight to complete darkness.

Sepura was the first in TETRA to introduce Large Character Mode on hand-portable radios. Now the STP8200 has evolved this unique feature such that text can be displayed in large format (double normal size) or very large format (approximately four times normal size) to give better legibility, whether belt-worn or when the STP8200 is inserted in a car kit cradle.

STP8200 Hand-Portable Applications

The STP8200 Hand-Portable optionally incorporates a highly-sensitive GPS receiver capable of processing extremely low-strength GPS signals. This means that 'clear sight of sky' signals from GPS satellites are no longer essential, and the GPS receiver is able to provide accurate positioning in many buildings and urban canyons. In addition to the standard position reporting, the STP8200 can send current GPS location information when the Emergency Call, Lone Worker or Man Down alarm is initiated. The STP8200 can be configured, by Radio Manager, to transmit Location report information in either the ETSI Location Information Protocol (LIP), Sepura Compact or NMEA protocol.

Onboard and external data applications can send and receive information, using Status, SDS services and multi-slot packet data services.

At the forefront of User Safety...

STP8200 includes optional Man-Down functionality. The Man Down reporting option uses multi-dimensional, motion sensing technology to monitor both the orientation and motion of the radio user. If certain parameters are exceeded, Man-Down functionality will automatically place the radio into the emergency mode generating an alert, complete with location report directed to a predefined address.

This technology enables control rooms to track the whereabouts of staff and to be automatically alerted that one of their field workers may have become incapacitated.

...& Security

Information security is critical to a growing number of agencies so the STP8200 can be supplied with any of the TETRA Air Interface encryption Algorithms plus support for SMART card based End to End Encryption².

Accessories and Management Tools

The STP8200 is supported by a wide range of audio accessories including an advanced car kit allowing hands free voice operation plus data connectivity whilst in the vehicle.

A choice of battery capacities and battery charging options are available to meet today's operational needs.

The powerful and flexible Sepura Radio Manager tool allows radio configuration and software changes to be managed remotely from a central point saving time and reducing costs.

These accessories and management tools are all shared with STP8000 and STP8100 radios reducing the cost and simplifying the management of mixed terminal radio fleets.



The User Interface (UI) of the STP8200 Hand-Portable range is common to Sepura's STP8000, SRH3000 and SRM/G3000 series radios.

By employing the same easy to use, quick access menu system, training costs can be substantially reduced.

The STP8200 has been specifically designed to provide easy access to the features of the radio with the minimum of key presses.

Eight, fully customisable, feature activation keys support rapid access to functions considered important to the operational role of the radio user.

STP8200 SPECIFICATIONS

DIMENSIONS Height: 133mm Width: 61mm (54mm) Depth: 32mm (Standard Battery) Depth: 37.5mm (High Capacity Battery)	DISPLAY AND USER INTERFACE Active LCD area 37 x 19 mm High visibility Transflective Monochrome Display, Normal, Large & Very Large Mode Text 8 Configurable Soft Keys (7 + Alarm Key) Call History Telephone/Radio Phone Book (max. 2000 entries) 9900 Talkgroups in TMO/DMO 255 Talkgroup Folders Quick Groups Transmit Inhibit with on/off Status messaging. Fixed & definable Scan Lists Remaining Charge Time Indication Missed Event Indicator	LOCATION BASED SERVICES GPS Integrated Option -182dBw (-152dBm) Acquisition Sensitivity -185dBw (-155dBm) Tracking Sensitivity GPS Based Compass Over the Air GPS reporting using the following protocols: <ul style="list-style-type: none"> • ETSI Location Standard Reporting (LIP) • NMEA • Sepura Compact Message
WEIGHT With Standard Battery <250g With High Capacity Battery <275g	VOICE SERVICES	DMO REPEATER SERVICES (LICENCE REQUIRED) DMO Voice Repeated DMO Tone Signalling Repeated Group Status & SDS Repeated Type 1A Efficient Operation over one Frequency Channel Presence Signal Support Emergency Call Monitoring & Participation in Calls
FREQUENCY BANDS 299.3 - 344.4MHz – STP8230 344 - 400MHz – STP8235 380 - 430MHz – STP8238 407 - 473MHz – STP8240 806 - 870MHz – STP8280	Full Duplex Calls (to MS and PABX/PSTN) ³ Half Duplex Calls (Individual and Group) ³ Priority Call Emergency Call (Pre-emptive Priority) Talking Party Identity Calling Line Identity Presentation DTMF dialling (from address book) ³ Dynamic Group Number Assignment Background (hidden) Groups DMO Individual Call ³ DMO Group Call DMO Emergency Call DMO "Intelligent" Emergency Call Ambience Listening Privacy Mode Whisper Mode Group Focus	CONNECTIVITY TETRA V+D PEI Data via RS232 and USB Data Cables Audio Connections via Rugged Accessory Connector High Speed Interface for Feature-rich Audio Accessories Audio and Data Connection via Facility Connector
POWER SUPPLY 7.4V (nominal) Lithium Polymer Battery Packs Intelligent Reporting Batteries 1260mAh Standard Battery 1400mAh Mid Capacity Battery 1880mAh High Capacity Battery Hi Cap battery exceeds 19 hours for 5/5/90 duty cycle @ 1.8 watts.	DATA SERVICES AND APPLICATIONS	ACCESSORIES (ALL ARE COMMON TO THE 8000 SERIES) 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 Integral Antenna Hands-Free Kit Personal Ear Pieces Feature-rich Car Kit Serial and USB Data Leads
RF PERFORMANCE RF Power – MS Power Class 3L (1.8 Watts) RF Power – customisable for TMO/DMO/Repeater Adaptive Power Control Supported Receiver Class – A and B Receiver Static Sensitivity -112dBm Receiver Dynamic Sensitivity -103dBm	Status Messaging (in TMO & DMO) SDS Messaging (in TMO & DMO) ⁵ Multi-slot Packet Data Circuit Mode Data TETRA Pager and Call Out Short Data Applications ⁵ Lone Worker Feature Man Down Feature	
PRODUCT PERFORMANCE Audio Power - >1 Watt Operational Temperature -20°C to +55°C Storage Temperature -40° to +85°C Dust & Water Protection IP54. Shock, Drop & Vibration ETS 300 019	SECURITY SERVICES Authentication Class 1, 2 and 3 TETRA Security Air Interface Encryption TEA1/2/3/4 Algorithm Supported ² SMART Card E2E Encryption Support ²	
PRODUCT OPTIONS GPS Man-Down Alarm ⁴ DMO Repeater Type 1A Air Interface Encryption Algorithm Smart Card based End to End Encryption Wide Range of Languages		

1 – please consult your Sepura representative for more details.

2 – availability is subject to export licence.

3 – selectable from phonebook and incoming call list.

4 – 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.

5 – entering text is not possible on Korean or Chinese language variants.

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 PLC

For more information visit www.seapura.com

SCR111 STP8200 DTS - ENGLISH - FEB10