

STP8000 HAND-PORTABLE

The latest TETRA radio from Sepura is a high performance, rugged hand-portable designed to be worn on the belt, but flexible enough to be worn elsewhere.

TOUGH

The STP8000 has been designed to perform in the most demanding operational environments, breaking new ground in TETRA.

HIGH PERFORMANCE

The RF Power is fully customisable up to 1.8 Watts in TMO, DMO and as a DM Repeater, delivering reliable communications when most needed, extending coverage beyond the reach of typical hand held radios.

The largest front-facing loudspeaker available in a TETRA hand-portable provides powerful, clear audio and alerting even in the noisiest environments.

FEATURE-RICH

The STP8000 is packed full of exciting options that can be exploited now and in the future to improve efficiency, enhance personal safety and reduce operational costs.



8000 SERIES

sepura

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 TALKGROUPS, VOLUME ADJUSTMENTS AND STATUS MESSAGES.

MISSED EVENT INDICATOR
A BLUE LED INDICATES THAT A CALL OR MESSAGE HAS BEEN MISSED. A SOFT KEY CAN BE CONFIGURED TO DISPLAY A LIST OF MISSED CALLS OR MESSAGES.

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.

LARGE COLOUR DISPLAY
THE LARGEST AND CLEAREST DISPLAY IN A TETRA HAND-PORTABLE

ERGONOMIC KEYPAD
LARGE, WELL-SPACED KEYS, TO ENSURE EASY, ACCURATE, OPERATION - EVERY TIME. THE LARGE LOUDSPEAKER, CONCEALED BEHIND THE KEYPAD, DELIVERS LOUD, CLEAR AUDIO, EVEN IN THE NOISIEST ENVIRONMENTS.

FEATURE ACTIVATION KEYS
PROVIDE INSTANT ACCESS TO FEATURES VIA A SINGLE KEY PRESS - USED FOR RAPID NAVIGATION THROUGH THE USER MENU.

PRODUCT DESIGN*
WITH IP55 CLASSIFICATION, AN INTERNAL METAL CHASSIS AND TOUGHENED PLASTIC CASING, THE STP8000 HAS BEEN DESIGNED TO PERFORM IN THE MOST DEMANDING OPERATIONAL ENVIRONMENTS.



* not actual size

The STP8000 is the most rugged TETRA Hand-Portable

STP8000 Hand-Portable:

- Rugged
- High Power RF and Audio
- Fully integrated, ultra-sensitive, GPS, the sGPS™
- Fully integrated Bluetooth™ wireless interface
- Memory card, up to 4GB. eg. for document storage and applications
- Supported by Sepura's market-leading software tools, including Radio Manager.
- A wide range of market leading accessories
- End-to-End encryption requires only a software upgrade for activation²

The STP8000 Hand-Portable is the most rugged TETRA hand-portable radio.

Designed and built to meet industry standard IEC529 IP55, it withstands day to day use in some of the harshest environments in the public safety, military, transport, and utilities markets.

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

Feature-rich TETRA radios with a large, high resolution colour displays

The STP8000 Hand-Portable offers a display area of 6 lines by 24 characters, the largest colour display on any TETRA hand-portable product. The high resolution, wide viewing angle and 262k colours represents the best performing display in TETRA hand-portables.

Sepura was the first in TETRA to introduce Large Character Mode on hand-portable radios. Now the STP8000 has evolved this unique feature such that all 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 STP8000 is inserted in a car kit cradle.

The User Interface (UI) of the STP8000 Hand-Portable range is common to Sepura's SRH3500, SRH3800 and SRM/G3500 radios. By employing the same easy to use, quick access menu system, training costs can be substantially reduced.

The STP8000 has been specifically designed to provide easy access to the features of the radio with the minimum of key presses.

STP8000 Hand-Portable Applications

The STP8000 Hand-Portable optionally incorporates a highly-sensitive award-winning 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 STP8000 can send current GPS location information when the Emergency Call or Lone Worker alert is initiated, for instant assistance.

Applications can send and receive information, using multi-slot packet data, circuit data, Status or SDS services.

Application support to and from Control Centres, databases and Intranets can be achieved using in-built Short Data Applications or WAP browsing.

SMART Thinking

To support these applications, giving the user flexibility, a standard Micro SD Card can be inserted to increase memory, up to 4GB.

For example, photos, maps, missing person information and hazardous chemical data can all be stored on the memory card. As this is a removable industry standard formatted card, it is easy to manage this data and update it using standard PCs and PDAs.

The flexible STP8000 platform is an ideal radio platform for running and storing applications in the future, for example: audio recording and playback, network logging and other data logging functionality (eg calls, messages, location updates, etc).

STP8000 Hand-Portable Connectivity

Bluetooth is available as an option on the STP8000 offering wireless connectivity. The vast majority of commercially available Bluetooth devices can be used with the STP8000 including: rugged headsets, personal computers, PDAs and Bluetooth-based beacon location systems.

The STP8000 also supports a full range of conventional wired accessories for data and voice as well as a large number of battery charging options to meet different operational needs.



STP8000 SPECIFICATIONS

DIMENSIONS	DISPLAY AND USER INTERFACE	SECURITY SERVICES
Height: 133mm Width: 61mm (54mm) Depth: 32mm (Standard Battery) Depth: 36mm (High Capacity Battery)	Large 30x38mm Active LCD Area 176 x 220 pixels Transflective TFT Display, 262K colours Normal, Large & Very Large Mode Text 18 Configurable Soft Keys Vibrate Call/message Call History Phone Book (2000 entries) 3000 Talkgroups in TMO/DMO Talkgroup Folders Quick Groups Transmit Inhibit Fixed & definable Scan Lists Remaining Charge Time Indication	Authentication Class 1, 2 and 3 TETRA Security Air Interface Encryption TEA1/2/3/4 Supported ² SMART Card E2E Encryption Support ² Embedded E2E Encryption Support ² Indigenous E2E Encryption Algorithm Support ²
WEIGHT	VOICE SERVICES	DMO REPEATER SERVICES (LICENCE REQUIRED)
With Standard Battery <250g With High Capacity Battery <275g	Full Duplex Calls (to MS and PABX/PSTN) Half Duplex Calls (Individual and Group) Priority Call Emergency Call (Pre-emptive Priority) Talking Party Identity Calling Line Identity Presentation DTMF Dialling MSISDN Dialling Abbreviated Dialling Dynamic Group Number Assignment Background (hidden) Groups DMO Individual Call DMO Group Call DMO Emergency Call DMO Intelligent Emergency Call	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	DATA SERVICES AND APPLICATIONS	CONNECTIVITY
380-430MHz – STP8038 407-473MHz – STP8040 ¹ 806-870MHz – STP8080 ¹ 350-400MHz – STP8035 ¹	Status Messaging (in TMO & DMO) SDS Messaging (in TMO & DMO) Multi-slot Packet Data Circuit Mode Data ¹ TETRA Pager and Call Out ¹ WAP Browsing Short Data Applications Image & Map Storage on Memory Card Lone Worker Feature Missed Event Application	TETRA V+D Bluetooth Support for Voice and Data (PEI) 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	LOCATION BASED SERVICES	ACCESSORIES
7.4V (nominal) Lithium Polymer Battery Packs Intelligent Reporting Batteries Standard Battery High Capacity Battery	sGPS Integrated Option -182dBw (-152dBm) Acquisition Sensitivity -185dBw (-155dBm) Tracking Sensitivity Bluetooth Location System GPS Based Compass	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 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/REP Adaptive Power Control Supported Receiver Class – A and B Receiver Static Sensitivity -112dBm Receiver Dynamic Sensitivity -103dBm		
PRODUCT PERFORMANCE		
Audio Power - >1 Watt Operational Temperature -20°C to +55°C Storage Temperature -40° to +85°C Dust & Water Protection IP55 Shock, Drop & Vibration ETS 300 019		
PRODUCT OPTIONS		
GPS Bluetooth Micro SD Card Mandown Alarm ¹ DMO Repeater Type 1A Air Interface Encryption Options End to End Encryption Options Wide Range of Languages & Keymats ¹		

1 – this is planned to be a future development, please consult your Sepura representative for availability.

2 – availability is subject to export licence.

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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