

# SBP8000

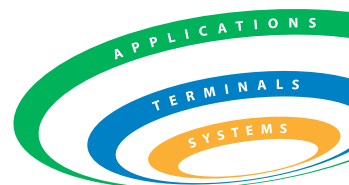
HAND-PORTABLE



The Sepura SBP series of hand-portable radios is the cornerstone of the Sepura DMR family of products. With an IP67 environmental protection rating, the series offers outstanding ruggedness and robustness, coupled with advanced functionality and high quality audio.

## sepura

Going further in critical communications



# SBP8000

## ACCESSORY OPTIONS\*



TWO-WIRE ACOUSTIC TUBE  
EARPIECE WITH IN-LINE PTT



EAR HANGER EARPIECE FOR RSM

REMOTE SPEAKER  
MICROPHONE



ONE-WIRE EARBUD  
WITH IN-LINE PTT



### Sepura: the solid choice for your move to digital mobile radio

Sepura has a pedigree that can be traced back, through well-known names such as Phillips and Pye, over 100 years in radio communications. The company has been a world leader in the digital sector for over 15 years. We have already shipped over one million digital radios, have a global footprint and are the market leader in many countries around the world. Built on providing robust, secure solutions for use in tough, harsh environments and utilising open standards to ensure total interoperability for users, Sepura's unique DMR product family remains true to these principles and provides a total DMR solution.

#### Other key benefits of moving to Sepura DMR include:

- › Interchangeability with Sepura current/established accessories which means that users have access to a wide, well thought-out accessories range
- › Access to a range of new and existing data applications via the industry-standard peripheral equipment data interface (PEI)
- › Sepura product quality and reliability
- › Support from a leading global supplier that is dedicated to open standards

### The SBP8000 series comprises two advanced, fully-functioned DMR hand-portables:

- › The SBP8000 model has a full keypad and colour screen and is designed for users who require full access to a wide range of functionality
- › The SBP8300 model is designed for users requiring access to basic functionality and has no keypad or display. Easy to use with gloved hands, this model also features coloured inserts to enable differentiation between teams or groups of users.

#### The series offers numerous benefits, including

- › Waterproof/submersible and dust-proof (IP67)
- › Designed to the highly robust MIL-Standard 810G (designed to withstand shock, vibration, etc.)
- › Outstanding audio quality and sensitivity
- › Exceptional battery shift life (up to 12 hours with a standard battery)
- › Intuitive user interface
- › Range of additional applications (such as dispatchers)

This is a range of DMR hand-portable radios which offer outstanding levels of robustness and ruggedness, combined with the advanced functionality and quality that users across a broad spectrum of businesses and industries demand from their digital radio communications. The series features products in both UHF and VHF frequencies and also has two distinct variants - full keypad and no keypad - to meet differing user operational requirements. The SBP8000 series has been designed for users operating in market sectors such as:

- > Construction
- > Facilities management
- > Healthcare
- > Hospitality
- > Logistics
- > Manufacturing
- > Retail
- > Security
- > Sports and leisure
- > Transport
- > Education
- > Municipalities
- > Public transport
- > Hotels

ONE-WIRE EAR HANGER



\* A variety of other accessory options, including single and 6-way chargers, are also available

- > Range of applications, including Man-Down and GPS
- > Options board capability to enable features such as indoor positioning

**The key digital features that the SBP8000 offers include:**

- > All call – talk to all groups at the same time
- > Broadcast call – send to everyone at the same time
- > Group call – instant team talking
- > Private call – one to one calling
- > Busy channel – prevents talking over other users
- > Scanning and priority scanning – don't miss any calls on other channels
- > Transmit interrupt – override conversations when you need to
- > Call alert – an audible tone informs a user of a private call
- > Contact list – for easy selection for private calling
- > Caller ID – see the identity of who's calling
- > Emergency call – takes priority
- > Emergency call & live mic – takes priority with hands free
- > Remote monitor – remotely hear what users are saying

- > End to End encryption – prevents eavesdropping of your communications
- > Radio enable/disable/kill – take remote control of lost or stolen radios or undesirable users
- > GPS – see where your users are
- > Lone worker – keep your staff safe
- > Man Down – ensure worker safety
- > Radio check – check which radios are in range
- > Status messages – send updates on activity
- > Text messaging – send basic information when non urgent
- > Zones – for easy selection of user groups
- > Vox - make hands-free operation easy
- > Vibrate feature – notifies user of incoming calls

**Familiar analogue features are also supported:**

- > CTCSS – reduce shared channel problems
- > 5-tone/Selcall signalling – to ensure that you reach the right person
- > MDC1200 signalling – to make efficient use of your radio channels

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## HAND-PORTABLE

### GENERAL SPECIFICATION

<b>Channel capacity:</b>	1024
<b>Frequency:</b>	<b>SBP8010</b> 136-174MHz <b>SBP8040</b> 400-470MHz
<b>Dimensions:</b>	130 x 62.5 x 37 mm
<b>Weight:</b>	367 g
<b>Power supply:</b>	Li-Ion battery (2000mAh standard battery and 2500 mAh hi-cap battery)
<b>Battery life:</b>	(@5/5/90 duty cycle): 12 hours (standard battery) 16 hours (hi cap battery)
<b>LCD:</b>	1.77" TFT (full keypad model only)
<b>Zones:</b>	248
<b>Multiple language capability</b>	

### RECEIVER

<b>Channel spacing:</b>	12.5kHz, 20kHz, 25kHz (analogue) 12.5kHz (digital)
<b>Frequency stability:</b>	± 1.5.ppm (-30°C - +60°C)
<b>Analogue sensitivity:</b>	<-118dBm (12dB sinad)
<b>Digital sensitivity:</b>	<5%BER @ -120dBm
<b>Intermodulation rejection:</b>	TIA-603 -70db ETSI -65db
<b>Adjacent channel selectivity (analogue):</b>	TIA-603 -60dB @12.5KHz TIA-603 -70dB @20/25KHz ETSI -60dB @12.5KHz ETSI -70dB @20/25KHz
<b>Adjacent channel selectivity (digital):</b>	TIA - 603 -60dB @12.5KHz ETSI -60dB @12.5KHz
<b>Spurious rejection:</b>	TIA-603 -70db ETSI -70db
<b>Rated audio:</b>	>1W
<b>GPS:</b>	TTFF – <60 seconds (cold start) <10 seconds (hot start)

<b>Distortion at rated audio:</b>	<3%
<b>Audio frequency response:</b>	300Hz-3KHz, +1/-3dB
<b>Hum &amp; noise:</b>	-43dB

### TRANSMITTER

<b>Frequency stability:</b>	± 1.5ppm (-30°C to +60°C)
<b>Power output:</b>	1-4W (UHF) 1-5W (VHF)
<b>Modulation limiting:</b>	±2.5kHz @ 12.5KHz ±4kHz @ 20KHz ±5kHz @ 25KHz
<b>Conducted/radiated emissions:</b>	-36dBm (<1GHz) - 30dBm (>1GHz)
<b>Adjacent channel power:</b>	ETSI -67dB (analogue) ETSI -60dB (digital)
<b>Audio response:</b>	300Hz – 3kHz, +1/-3dB
<b>Audio distortion:</b>	<3% at 60% deviation (analogue) <0.5% @ 5% BER (digital)
<b>Digital vocoder:</b>	AMBE2+
<b>Digital protocol:</b>	ETSITS 102 361 -1, -2 & -3

### ENVIRONMENTAL

<b>Operating temperature:</b>	-30°C to +60°C
<b>Storage temperature:</b>	-40°C to +85°C
<b>Humidity:</b>	<b>MIL std:</b> 810 G
<b>Environmental protection rating:</b>	IP67 (waterproof, submersible & dustproof)
<b>MIL std:</b>	810 G
<b>Shock, drop &amp; vibration:</b>	ETSI 300-019-2-7

Apex Radio Systems Ltd.  
102 Tantobie Road  
Denton Burn  
Newcastle upon Tyne  
NE15 7DQ

Tel 0191 228 0466  
Fax 0191 228 0467  
Email info@apexradio.com



Sepura's policy is to continually improve its products and services.

The specifications, features and facilities described in this document were correct at publication, but are subject to change without notice.

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DIGITAL MOBILE RADIO ASSOCIATION