

# SBR8000

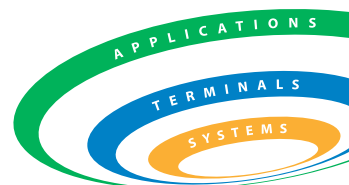
DMR BASE STATION/REPEATER



Sitting at the core of a Sepura DMR network, the SBR8000's power, installation and functionality options meet a wide variety of user requirements across a spectrum of sectors, including manufacturing, construction, local government and transport.

## sepura

Going further in critical communications



# SBR8000 REPEATER



## Ease of installation and an impressive array of features and functionality

### 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, proven 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 SBR8000 offers numerous features, including:

- › Fully-featured DMR Tier II repeater
- › Dual (analogue or digital) mode and mixed mode operation
- › Compact (3U)
- › 25W and 40W/45W options
- › IP interface
- › GPS connectivity
- › AIS available
- › Rack- or wall-mountable
- › Mains and DC power supply options

The SBR8000 provides the core of a DMR network. Featuring up to 45W of power, ease of installation and an impressive array of features and functionality, the SBR8000 is positioned to provide extended radio coverage for users across a broad spectrum of sectors. The Sepura DMR repeater has been designed specifically for users operating in market sectors such as:

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



#### The key digital features that the SBR8000 supports 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 – 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
- › 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

#### 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

# SBR8000

## BASE STATION/REPEATER

### GENERAL SPECIFICATION

<b>Channel capacity:</b>	16
<b>Frequency:</b>	<b>SBR8010</b> 136-174MHz <b>SBR8040</b> 400-470MHz
<b>Dimensions:</b>	Height 3U, compatible with 19" rack mounts 132.5mm x482.5mm x 338.5mm
<b>Weight:</b>	12.5Kg
<b>Power supply:</b>	100-240V AC, 13.6V DC (min. 10.8V, max. 15.6V)
<b>Current drain:</b>	1A (1A DC) standby 3A (7.5A DC) 25W 4A (12A DC) 40W

### RECEIVER

<b>Channel spacing:</b>	12.5kHz, 20kHz, 25kHz (analogue) 12.5kHz (digital)
<b>Frequency stability:</b>	± 0.5 ppm
<b>Analogue sensitivity:</b>	<-118dBm (12dB sinad)
<b>Digital sensitivity:</b>	<5%BER @ -120dBm
<b>Intermodulation rejection:</b>	TIA-603 -71dB ETSI -70dB
<b>Adjacent channel selectivity (analogue):</b>	TIA-603 -62dB @12.5KHz TIA-603 -75dB @20/25 KHz ETSI -65dB @12.5KHz ETSI -80dB @20/25KHz
<b>Adjacent channel selectivity (digital):</b>	TIA-603 -62dB @12.5KHz ETSI -65dB @12.5KHz
<b>Spurious rejection:</b>	TIA-603 -75db ETSI -70db

### TRANSMITTER

<b>Frequency stability:</b>	± 0.5ppm (-30°C to +60°C)
<b>Power output:</b>	40W (UHF) 45W (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>Digital protocol:</b>	ETSI 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>MIL std:</b>	810 G
<b>Shock, drop &amp; vibration:</b>	MIL 810 G

**YOUR APPROVED SEPURA DMR RE-SELLER**

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.

**sepura**

© Sepura plc. For more information visit [sepura.com](http://sepura.com)

0028\_0215\_V2.1\_English

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION