

SBR8000



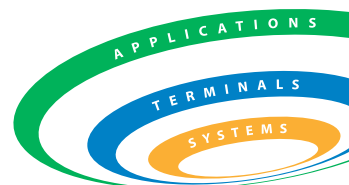
DMR BASE STATION/REPEATER



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 2 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

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

RECEIVER

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

TRANSMITTER

Frequency stability:	± 0.5ppm (-30°C to +60°C)
Power output:	40W (UHF) 45W (VHF)
Modulation limiting:	±2.5kHz @12.5KHz ±4kHz @ 20KHz ±5kHz @ 25KHz
Conducted/radiated emissions:	-36dBm (<1GHz) -30dBm (>1GHz)
Adjacent channel power:	ETSI -67dB (analogue) ETSI -60dB (digital)
Audio response:	300Hz-3kHz +1/-3dB
Digital protocol:	ETSI 102 361 -1, -2 & -3

ENVIRONMENTAL

Operating temperature:	-30°C to +60°C
Storage temperature:	-40°C to +85°C
MIL std:	810 G
Shock, drop & vibration:	MIL 810 G

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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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DMR
DIGITAL MOBILE RADIO ASSOCIATION